E F I

ENERGY FEDERATION
INCORPORATED

Since 1982

Wholesale Products Catalog

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- Contractors
- Trades
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Thank You Very Much

The Wholesale Division of EFI would like to express our appreciation to you for your continued business and loyalty. We have had the pleasure of serving many of you for as long as 20 years. Over those years, we have grown together, learning about new technologies, learning building science and learning how to deliver a better product or service to our customers. We are committed to continue learning about new products and techniques along with you for many years to come.

We think of you as our partners. We stand between our vendors and our customers just as you stand between your vendors and your customers. We rely on our vendors to help us serve our customers; you rely on your vendors to help you serve your customers. As one of your vendors, we want to do everything we can to make sure you can rely on us.

We often talk internally here at EFI about how fortunate we are to have customers that are quality conscious and interesting to work with. You ask good questions, we strive to give accurate information. We realize that we are not perfect but we are constantly working on internal training and information exchange so that the advice we give will be helpful to you.

We look to you to let us know what is happening in the field — how our products work, what kind of applications you are finding. It is our hope that you will always give us feedback and let us know how we are doing. We appreciate compliments but we will learn more from your insights, suggestions, clarifications and criticisms.

So thank you. We hope that as your business continues to thrive, grow and change that you will keep us in your plans and continue to turn to us for help. All the best and keep in touch.

EFI's Wholesale Division

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Wholesale Website

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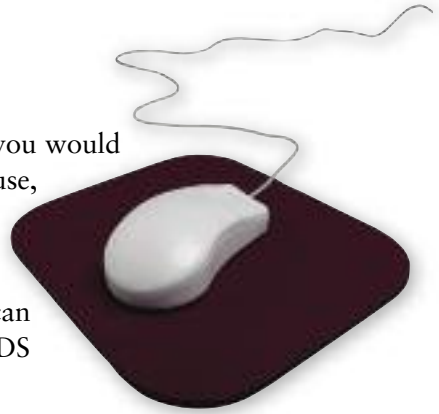
www.efi.org/wholesale



Never hesitate to give us a call to place orders, ask questions or get information. If you would like to order on-line, we invite you to use the EFI e-business site. This is an easy to use, basic web site that allows existing customers to place orders, and check pricing.

The initial landing page is located at www.efi.org/wholesale. This page contains basic company information, phone numbers, addresses and maps to our locations. You can also download some useful forms and files — Credit application, Catalog pages, MSDS Sheets for products that require them, Installation Instructions and Spec Sheets.

Wholesale Pricing and the Wholesale Ordering Section of the site are password protected. In order to place orders, you will need to send a note to wholesale@efi.org requesting that we enable your account. Once enabled, you will be able to see your pricing, place orders, check stock, get copies of open orders, invoices, quotes, etc.

If you are not yet in our system and have not done business with us, send a note to wholesale@efi.org with your company name, address, phone and fax numbers and contact names. We will set you up and enable you to use our wholesale site.

Thank you for your continuing loyalty. We are very appreciative of our many customers who have been with us for over 25 years and are excited to be starting new relationships every week.

We appreciate your continued business and welcome your feedback.

Table of Contents

Domestic Hot Water Solar Systems 1–2
Wholes House Ventilation Tips 3
Fantech Whole House Ventilation Systems 4–6
Radon Control Products 7
Panasonic ERV 8
Panasonic Whisper Fans 9–11
Ventilation Solutions, Options and Tips 12
Fantech Range Hoods 13
Fantech Premium Bath Fans 14
Fantech Ventilation Fans 15–16
Broan Quiet Exhaust Fans 17
Whole House Fans 18
Ventilation Accessories 19–20
Timers and Controls 21–23
Concept 3™ High Efficiency Motor 24
Low Expansion Foam 25–26
High Expansion Foam 27–29
Weatherization and Air Sealing Products 30–33
Power Pipe 34
Meters and Testing Equipment 35–36
Carbon Monoxide Detectors 37
Smoke and Fire Detectors 38
Programmable Thermostats 39
Compact Fluorescent Lighting 40–47
LED Lighting 48–50
Rain Control Products 51–52
Water Saving Products 53
Exhaust Fan Dimensional Information 54–55
Policies and Procedures 56

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ALL COPPER DHW SOLAR COLLECTORS

ENERGY FEDERATION INCORPORATED

Information: With over 20 years of manufacturing experience, these all copper collectors are built to last while looking clean and neat when installed. Most homes will use a one or two panel system for domestic hot water depending on your location and water usage. EFI is carrying Aurura panels measuring 4' x 8' or 4' x 10'. Aurura panels can be used for space heating if desired.

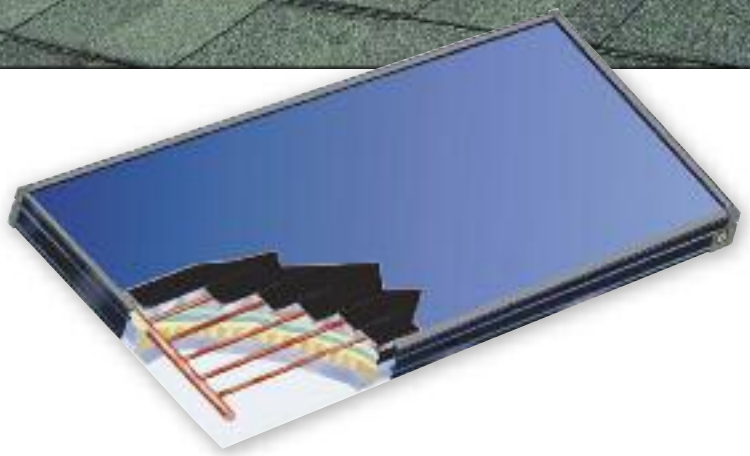
- Made in the USA
- Copper fin absorber plate ultrasonically welded to copper risers
- .375" copper risers welded to 1" copper manifolds
- Tempered .125" thick glass cover
- Insulation is 1.187" foiled faced polyisocyanuarate
- Casing is all aluminum extrusion
- All edges gasketed with EPDM to absorb differential expansion of glazing and frame

7600.007 Aurora 4 x 10 Panel
7600.008 Aurora 4 x 8 Panel

Roof Kits
Kits include:
- End caps and fittings to connect copper pipe to panels and panels to each other
- Flashing plates, connectors and sealants to bring copper pipes and sensor wires down through the roof

7600.025 Roof Kit HE/DB — Single Panel
7600.026 Roof Kit HE/DB — Double Panel

7600.027 Flush Mount Hardware Set
7600.028 Tilt Mount hardware Set — 36"



SPECIFICATIONS

Model Number	SLAR32	SLAR40
Dimensions (LxWxH)	97.437 x 47.125 x 3.625	121.625 x 47.375 x 3.625
Gross area — ft²	31.78	38.87
Net Aperture Area	30.53	37.44
Ratio net/gross — ft²	0.96	.96
Dry Weight — lbs	106	132
Fluid Capacity — gals	0.6	0.7
Test Pressure — psi	160	160
Operating Pressure — psi	145	145

EFFICIENCIES

Model Number	SLAR32	SLAR40
Low Temp: 36°F	34,500	42,400
Intermediate: 90°F	28,000	36,600
High Temp: 144°F	5,800	14,900
Efficiency Equation	73.7–94 (Ti–Ta)/I	74.0–95 (Ti–Ta)/I

Call for a copy of the SRCC report.

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DHW Solar System Parts and Accessories

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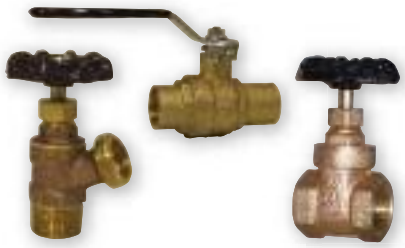
Drain Back Tank and Tank Stand

Differential Control Kit

Sweat Flow Meter

Pressure Gauge for Expansion Tank

Storage Tank Kit



Controls and Pumps

7600.031 Differential Control Kit

7600.51 Taco Pump 006 BC4 — For Full System

7600.52 Taco Pump 009 BF5 — For Drain Back System

7600.521 Mounting Flange for 009 BF5

System Tanks

7600.033 Drain Back Tank — 10g w/Site Glass

7600.035 Drain Back Tank Stand — 6" Alum

7600.036 Thermal Expansion Tank — 2 Gallon

7600.037 Pressure Gauge for Expansion Tank

Hot Water Storage Tanks

4020.701 50 Gallon water heater — 1 panel system

4020.702 85 Gallon water heater — 2 panel system

4020.703 105 Gallon water heater — 3–4 panel system

External Heat Exchangers

5700.201 Braze Plate Heat Exch. #LA1410 — 1–2 panels system

5700.202 Braze Plate Heat Exch. #LA1420 — up to 6 panels

System Fluid

7600.89 DOW Frost HD 60% 5 Gallon Pail

7600.9 DOW Frost HD 100% 5 Gallon Pail

Copper Fittings, Parts and Pieces

7600.071	Hard Copper	0.75" x 5'
7600.072	Flex Copper	0.75" x 60'
7600.073	Pipe Insulation	0.75" x 0.5" x 6'
7600.041	Mixing Valve	0.75" (110°–145°)
7600.043	Pressure Relief Valve	0.75"
7600.044	Spring Check Valve	0.75"
7600.046	Sweat Flow Meter	

7600.21 Coupling — 0.75"

7600.22 Female Fitting — Threaded — 0.75"

7600.23 Male Fitting — Threaded — 0.75"

7600.14 Elbow — 90° — 0.75"

7600.31 Boiler Drain — 0.75"

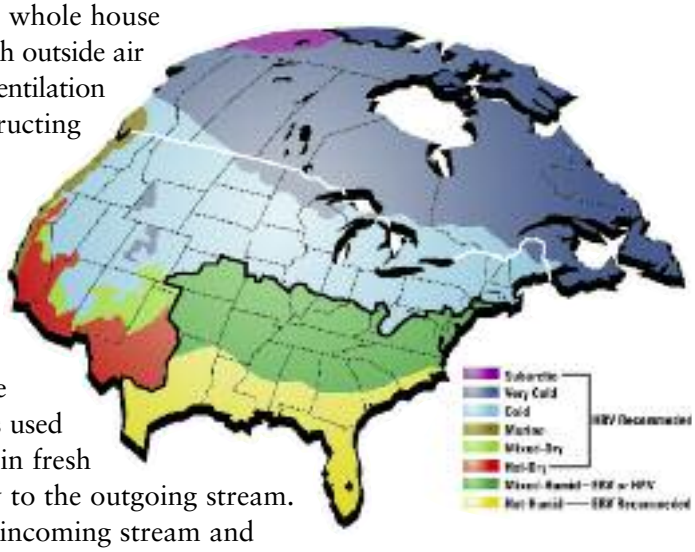
7600.32 Ball Valve — 0.75"

7600.33 Gate Valve — 0.75"

7600.92 Role of Electrical Tape — 60'

Whole House Ventilation System Tips

Heat and Energy Recovery Ventilators (HRVs and ERVs) are whole house ventilation systems that can provide a continuous stream of fresh outside air while exhausting stale indoor air. These machines are the best ventilation solution available for comfort, health and safety when constructing a tight home. HRVs and ERVs are low flow systems that are usually run continuously whenever the house is closed up.



An HRV transfers heat from the outgoing air stream to the incoming air stream. Select an HRV in the cold Northeast, Midwest and also in the dry Southwest.

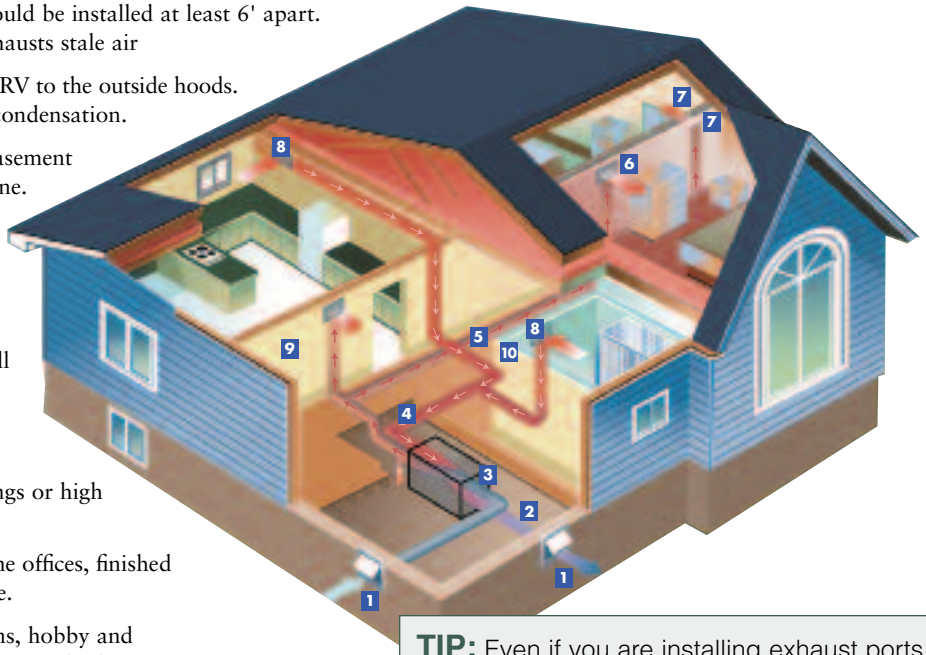
An ERV transfers heat and humidity from one air stream to the other. Use an ERV in humid climates where air conditioning is used extensively. During the cooling season this system will bring in fresh air cooling it down while transferring the incoming humidity to the outgoing stream. During the winter months, the ERV will transfer heat to the incoming stream and transfer outgoing humidity back inside, helping to keep the home environment comfortable.

HRVs and ERVs transfer approximately 65% of heat and humidity.

HRV/ERV Installation Tips

1. Exterior hoods for exhaust and supply should be installed at least 6' apart. One hood brings in fresh air, the other exhausts stale air
2. Short, 6" round duct runs from the HRV/ERV to the outside hoods. Best to insulate these short runs to avoid condensation.
3. HRV/ERV typically suspended from the basement ceiling. Hanging kit comes with the machine. Heat/humidity transfer happens in the core of the HRV/ERV.
4. 6" round rigid ducts used for trunk lines.
5. 4" branch lines are often used to travel through inside walls and other framing. All duct runs as straight as possible, use rigid duct, with few elbows. Insulate any duct traveling through un-conditioned spaces.
6. Exhaust and Supply ports located on ceilings or high on walls, as far into rooms as possible.
7. Deliver fresh, filtered air to bedrooms, home offices, finished basements. Places where people spend time.
8. Exhaust stale air from bath rooms, kitchens, hobby and exercise rooms: places that generate moisture and odors.
9. Low voltage Central Control located in the main body of the house but not the kitchen area.
10. Low voltage boost switches located in rooms where exhaust ports are installed — bath rooms, hobby and exercise rooms.

Call EFI Wholesale for further information and guidance.



TIP: Even if you are installing exhaust ports from your HRV or ERV to bathrooms, we recommend also using an exhaust fan for duty exhaust. The HRV/ERV runs slowly and steadily and does a great job providing fresh air and exhausting stale air. But to evacuate a bathroom quickly, your customer will want to have the option of additional exhaust.

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Fantech Whole House Ventilation Systems

ENERGY FEDERATION INCORPORATED

SUPER COMPACT HEAT RECOVERY VENTILATORS

These New Super Compact HRVs and ERVs from Fantech are the perfect solution to provide fresh air to small homes under 1,500 square feet.

Their compact size uses 4" round duct, making them easy to install and quiet to operate. They are supplied with a hanging bracket and 3-prong plug.

TIP: Use these units to provide fresh air for small spaces like finished basements, master bedroom suites, hobby rooms, home offices, or small homes less than 1,500 square feet.

- Single Speed Continuous — 70 CFM
- Super Compact Size — 22" x 11" x 18" — only 25 lbs
- Electrostatic filters included — washable
- Easy mount wall bracket included
- 4" duct ports — easy installation
- 3' Power Cord
- Case is 24 gauge galvanized steel, baked powder coated finish
- Fully lined with 1" aluminum foil faced polystyrene foam
- Two ebm motors, balanced sealed and permanently lubricated

5504.152 SH 704 Compact HRV — 4" Side Ports
5504.154 VH 704 Compact HRV — 4" Top Ports

5504.153 SE 704N Compact ERV — 4" Side Ports
Enthalpic core transfers both heat and humidity

Should a timer cycle be desired, we recommend the use of an appliance timer that plugs into a socket with the HRV plugged into it

- 3 On/Off setting per 24 hours

5010.16 120v — 15 Amp plug-in Appliance Timer

WHOLE HOUSE HEPA FILTRATION SYSTEM

- 99.97% effective down to 0.3 microns
- Collects airborne particles and allergens including:
  - – Smoke and dust particles
  - – Animal dander
  - – Bacteria and attached viruses
  - – Dust mites
- Cleans the air in an average house once each hour
- Pre-wired with 5' cord, 3 prong plug, 115 vac
- Includes a pre-filter for large particles and a carbon filter for odors This pre-filter system lengthens the life of the HEPA filter
- Circulation rate = 240 cubic feet per minute
- 7 year warranty (not including filters)
- Two duct ports 8" round

5501.02 Fantech HEPA Filter System
20"H x 16"W x 10.5"D

Replacement Filters
5501.022 Pre-Filter and Carbon Filter
5501.023 HEPA Filter

AIR EXCHANGER

- Provides Approx. 50 CFM of outside air exchange
- Simple, efficient and economical ventilation
- Three operating speeds, continuous at low or medium
- Washable filter is easy to reach
- Includes on/off control with dehumidistat

Air Exchangers are simple, balanced ventilation systems that can be used for small homes less than 1,500 square feet, finished basements, home offices or bedroom suites. Air Exchangers work by bringing in outside air, mixing it with inside air and delivering a mixture of fresh outside air and re-circulated inside air to the home. At the same time indoor stale air is exhausted from the home. There is no heat recovery core — the incoming air is tempered as a result of being tumbled with the inside air and delivered to the living spaces.

		CFM @ .4ESP L-M-H	DIMENSIONS W x H x D
5504.20	AEV 1000	42 – 60 – 104	22" x 19" x 13"

Fantech Whole House Ventilation Systems

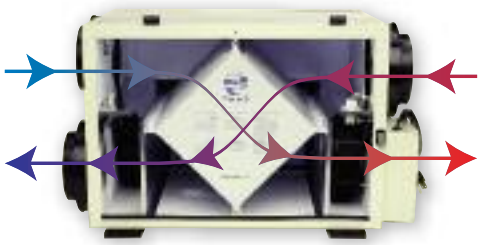
ENERGY FEDERATION INCORPORATED

HEAT AND ENERGY RECOVERY VENTILATORS

TIP: Use HRVs and ERVs to provide fresh air to the entire house while exhausting stale air. These are balanced ventilation systems. In typical installations, fresh outside air is supplied to bedrooms and home offices while indoor air is exhausted from bathrooms, exercise rooms and kitchens. See page 3 for installation tips and techniques.

Unit with Top Points

Unit with Side Points



Unit with Side Points

- Cross flow heat recovery core provides continuous fresh air
- Electrostatic filters included — washable
- Automatic defrost activates when outdoor air is below 23°F
- "R" Series features an extra port to re-circulate interior air for defrost
- Three operational speeds for enhanced performance
- Control box on the outside for easy wiring

Information:

Heat Recovery Ventilators (HRV) transfer heat only.

Energy Recovery Ventilators (ERV) transfer both heat and humidity.

See the map on Page 3 for recommendations.

All units with R in the model number (1405 R) feature a 5th port that is used for re-circulation of indoor air. During extreme low temperatures the intake port shuts down periodically to protect the core from freeze damage. The unit becomes an exhaust only system with re-circulation during these periods. The homeowner also has the ability to run the machine on re-circulation/exhaust mode through the central control.

Who is HVI?

The Home Ventilating Institute (HVI) is an independent testing organization that certifies various specifications and characteristics of ventilation equipment. All of the ventilation equipment that EFI carries has been HVI certified. Further information, test results and definitions can be found at www.hvi.org.

FOR HOMES LESS THAN 2000 SQUARE FEET

		CFM @ .4ESP L-M-H	DIMENSIONS W x H x D
HRV with 6" Side Ports			
5504.01	SHR 1504 HRV	63 – 100 – 153	28" x 16" x 17"
5504.05	SHR 1505 R HRV	63 – 100 – 153	28" x 17" x 17"
HRV with 6" Top Ports			
5504.145	VHR 1404 HRV	40 – 75 – 130	24" x 16" x 17"
5504.147	VHR 1405 R HRV	40 – 75 – 130	24" x 16" x 17"
ERV with 6" Side Ports			
5504.1	SER 1504 ERV	50 – 100 – 153	28" x 16" x 17"

FOR HOMES LESS THAN 3000 SQUARE FEET

HRV with 6" Side Ports			
5504.02	SHR 2004 HRV	60 – 115 – 200	32" x 20" x 17"
5504.06	SHR 2005 R HRV	60 – 115 – 200	32" x 20" x 17"
HRV with 6" Top Ports			
5504.146	VHR 2004 HRV	60 – 115 – 200	28" x 21" x 17"
5504.148	VHR 2005 R HRV	60 – 115 – 200	28" x 21" x 17"
ERV with 6" Side Ports			
5504.11	SER 2004 ERV	50 – 90 – 190	32" x 20" x 17"

FOR HOMES GREATER THAN 3000 SQUARE FEET

HRV with 6" Side Ports			
5504.07	SHR 3005 R HRV	65 – 120 – 235	50" x 22" x 17"

CFM = Cubic Feet per Minute of Air Flow; L-M-H = Low-Medium-High; esp = external static pressure

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Fantech Whole House Ventilation Systems

ENERGY FEDERATION INCORPORATED

Central Controls for Fantech HRVs and ERVs

Full Feature Central Control
- Soft touch control pad
- On/Off power button
- Digital humidity percent display
- 2 operating modes (continuous or intermittent)
- 3 fan speeds — low-medium-high
- 15, 30, & 60 minute override timer
- 2-wire connection
- Filter maintenance reminder indicator light
- 2 wires, low voltage

5504.63 Intellitek EDF-2 Control (Used with all models without re-circulation port)

5504.60 Intellitek EDF-5 Control (Used with SHR-R and VHR-R series — includes recirculation mode)

- Simple Central Control — Triple Function
- Push once for continuous low speed
- Push twice for 20 min. on/ 40 min. off
- Push three times for continuous high speed
- 2 wires, low voltage

5504.643 Intellitek EDF-1 Wall Control

Basic central control
- Boosts machine to high speed when humidity rises above set point

5504.51 Dehumidistat with on/off — 4 wires

5504.55 Dehumidistat with NO on/off — 2 wires

Boost Controls for Fantech HRVs and ERVs

- 20 minute boost
- Typically used in bathrooms for duty cycling
- 2 wires, low voltage

5504.64 20 Minute Boost Timer

- Push 1, 2, or 3 times for 20, 40, or 60 minutes on high
- 3 wires low wattage

5504.641 20-40-60 Minute Boost Timer

Grilles, Collars, Hoods and Elbows

Traditional Style
- Adjustable, use for both exhaust and supply
- Diffuses air across ceiling or wall

5540.01 4" or 5" Adjustable Supply/Exhaust Grille

5540.02 6" Adjustable Supply/Exhaust Grille with mounting collar

Designer Style
- Low profile, not adjustable
- Matches Fantech grille-light unit

5540.001 4" Designer Exhaust Grille
5540.003 6" Designer Exhaust Grille

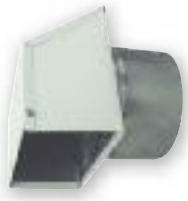
Galvanized Mounting Collars
- Nailing flange attaches to ceiling joist
- Serves as an anchor to attach duct work and pressure fit grilles

5540.04 4" Mounting Collar
5540.05 5" Mounting Collar
5540.06 6" Mounting Collar

Elbow for 2 x 4 wall
- Transition 4" oval to 4" round

4530.37 90° Plastic Elbow for 2 x 4 wall

Outdoor Supply and Exhaust Kit
- Kit contains 2 hoods
- White metal hoods with duct collars
- Rodent screen attached



5501.445 6" White Metallic Hood with Screen, 8" Tail, Pair

Radon Control Products

ENERGY FEDERATION INCORPORATED

Information: EFI makes no claim that using these products will solve a radon problem and as a result, EFI is not liable for any damages or claims which may arise from the use of these products. It is incumbent on the installer to follow all applicable federal, state and local codes associated with radon control. We recommend testing for radon both before and after installing radon control products and consulting with the EPA and local health departments for guidance.

RADON FANS

HP Series fans are designed for high pressure capability required for radon mitigation.

Fan Housing:
- UV resistant, UL listed for commercial applications
- Factory sealed to prevent leakage
- Watertight electrical box
- Approved for wet location mounting

Fan Motor:
- High efficiency EBM motorized impeller
- Automatic re-set thermal overload protection
- Avg life expectancy of 7–10 years continuous
- Five year full factory warranty

	MODEL	CFM*	WATTS	DUCT
5501.81	Fantech HP 2190	15 – 80	60 – 85	4.50"
5501.82	Fantech HP 220	100 – 190	85 – 152	6.25"

**CFM measured approx. 1" to 1.75" of Static Pressure*

Couplings for attaching to PVC

5510.191 156-44 Coupling for HP 2190 with 4" PVC

5510.192 156-43 Coupling for HP 2190 with 3" PVC

5510.193 156-64 Coupling for HP 220 with 4" PVC

5510.194 156-63 Coupling for HP 220 with 3" PVC

RADON TEST KIT

- Complete kit with instructions
- Accurately test a home or workplace
- Run test for 2–3 days, then use the enclosed self addressed envelope to send the sample to a lab. Results sent back by the lab.

5020.3 Radon Test Kit

PVC STACK PIPE TOPS

- Caps for use with Schedule 20 PVC

5510.201 Varmint Guard — 3" Schd 20 PVC

5510.202 Varmint Guard — 4" Schd 20 PVC

5510.203 Exhaust Cap — 4" Schd 20 PVC

- Caps for use with Schedule 40 PVC

5510.206 Varmint Guard — 3" Schd 40 PVC

5510.207 Varmint Guard — 4" Schd 40 PVC

SUMP COVER

3040.9 Sump Pump Cover 21" Round

MINI U-TUBE

- Used to measure differential pressures
- Easy installation, accurate readout
- Comes with 0.75 oz red gauge oil, pair of carrying plugs, pair of tube connectors and instructions

5510.302 Dwyer Manometer

AIR SEALING FOAM

- Use to seal cracks and holes
- One time use 12 oz can

3530.212 Convenience Products 12 oz Straw Foam

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Panasonic Whisper Quiet ERV

ENERGY FEDERATION INCORPORATED

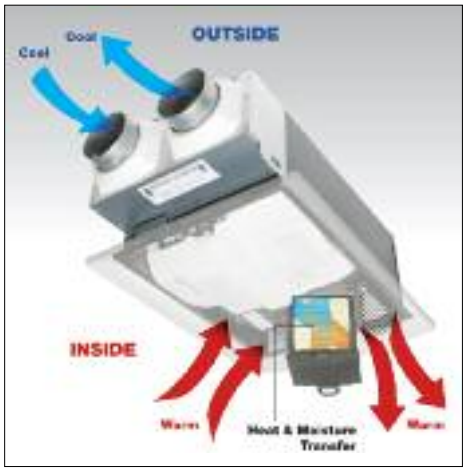
WHISPER COMFORT ERV — ENERGY RECOVERY VENTILATOR

TIP: Use this Spot ERV to provide balanced ventilation in large single rooms like home offices or bedroom suites, or in small condominiums and apartments. This unit brings in fresh air while exhausting stale air, recovering heat in the process. The Panasonic ERV is NOT intended to be used as a bathroom exhaust fan.

Theses units run on low speed continuous (10 or 20 CFM) with the ability to boost to high speed (20 or 40 CFM). The CFM rates are set during installation.

Whisper Comfort uses two 4 inch round ducts to exhaust stale air while providing fresh air. Running on a very low speed continuously means it is quiet and energy efficient. Using a capillary core, both heat and humidity are transferred during the process of bringing in fresh air and exhausting stale air.

- Balanced and quiet ventilation
- Two settings available:
  - 10 CFM continuous low with 20 CFM boost
  - 20 CFM continuous low with 40 CFM boost
- 0.8 Sones on high speed, less than 0.3 on low
- Use standard switches to operate off/on and high/low (switches not included)
- Capillary Exchange Core. Transfers both heat and humidity.
- Frost protection — outside damper closes at low temperature to prevent freeze up
  - Above 32°F — Exhaust and supply fully open
  - From 32°F to 20°F — Supply closes for 30 minutes, opens for 1 hour
  - Below 20°F — Supply closes for one hour and opens for 10 minutes
- One motor running two blower wheels
- Two filters — one for each air stream. Clean with a vacuum.
- Low profile grille design



	MODEL	CFM	SONES	POWER	DUCT
5505.12	ERV FV-04VE1	10/20 or 20/40	0.8	23w max	4"

Whisper Comfort Wall Cap

- Double Chamber for exhaust/supply

5505.181 FV-WC04VE1

ASHRAE 62.2 Ventilation Guideline

ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers) is an organization that develops standards for the HVAC industry.

62.2 is a standard that has been set for ventilation and indoor air quality for residential low-rise buildings. This applies to single family homes and up to three story multi-family homes. 62.2 allows for supply systems, exhaust systems and balanced systems to achieve the standard.

If you are being asked to comply with the ASHRAE 62.2 Standard for ventilation, here is the formulae that is used to determine the ventilation rate in single family homes:

(Total Square Footage of the home x .01) + [(Number of bedrooms +1) x 7.5] = Recommended CFM Rate

EXAMPLE:

3000 square foot home with 3 bedrooms:

(3000 x .01) + [(3 + 1) x 7.5] = Recommended CFM Rate

30 + (4 x 7.5} = Recommended CFM Rate

30 + 30 = 60 CFM

60 CFM continuous ventilation is recommended to comply with ASHRAE 62.2

Go to www.ashrae.org for further information and more specific detail.

What is a Sone?

A sone is a unit of measure for loudness. HVI (the Home Ventilating Institute) uses sone measures to compare noise levels for ventilation equipment. As a real world comparison, 1 sone is approximately equivalent to the sound level of a quiet refrigerator in a quiet room. 3 sones is three times as loud as 1 sone.

The most common, inexpensive bath fans that we have used for decades are typically 5 to 7 sones. The quality fans that EFI sells are often 1.5 sones or less.

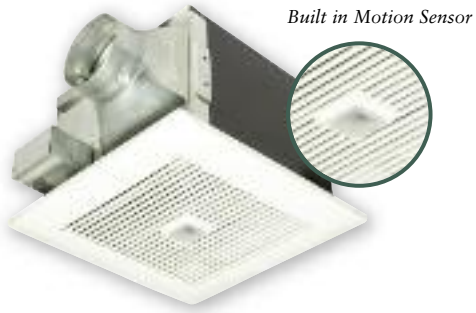
There are no sone level ratings or comparisons for remote mounted fans as a testing method has not been established to compare the various installation variances.

Panasonic Whisper Green Ceiling Fans

ENERGY FEDERATION INCORPORATED

Information: The new Whisper Green fans are designed to overcome the resistance created by elbows, curves and terminations in ductwork. A built-in sensor adjusts the fan speed in order to maintain the desired CFM rate. These fans are able to overcome up to 60 equivalent feet of duct work. If you buy an 80 CFM Whisper Green fan, you get 80 CFM even when installed.

WHISPER GREEN FANS — PREMIUM SERIES



These models are designed to run continuously at a pre-set low speed with full speed boost capability initiated by either a wall switch or a built in motion sensor. The low-speed continuous setting can be disabled if desired. A delay timer is built in to keep the fan on high speed for up to 60 min.

TIP: Use this series in situations where continuous low-speed exhaust with boost capability is desired.

- Features DC motors
- Low Speed Continuous Operation
- High Speed Boost initiated by a switch or motion sensor
- Automatically adjusts motor RPM to overcome backpressure
- A Delay Timer is built in to help eliminate moisture
- Not compatible with Speed Controls
- Special wiring required
- Light modules use 2 x 18w electronic lamps

	MODEL	CFM	LOW SPEED RANGE	SONES	POWER	DUCT	
Premium-Series Fan Only Low Speed Continuous with Boost:							
5505.114	FV 08VKS2	80	0, 30–70	0.3	11w	4"	Switch
5505.113	FV 08VKM2	80	0, 30–70	0.3	11w	4"	Motion
5505.116	FV 13 VKS2	130	0, 50–110	0.5	17.5w	6"	Switch
5505.115	FV 13 VKM2	130	0, 50–110	0.5	17.5w	6"	Motion
Premium Series with Light/nightlight							
5505.098	FV 08VKSL1	80	30–70	0.3	14w	4"	Switch
5505.097	FV 08VKML1	80	30–70	0.3	14w	4"	Motion

WHISPER GREEN FANS — STANDARD SERIES

- Featuring DC motors
- Single speed operation
- Automatically adjusts motor RPM to overcome backpressure
- Not compatible with Speed Controls
- Light modules use 2 x 18w electronic lamps

	MODEL	CFM	SONES	POWER	DUCT
Standard-Series Fan Only One speed — No boost					
5505.094	FV 05VK1	50	0.3	6w	4"
5505.095	FV 08VK1	80	0.3	11w	4"
Standard-Series with Light/Nightlight One Speed — No boost					
5505.096	FV 08VKL1	80	0.3	11w	4"

TIP: Use this series in situations where the occupant will use the fan simply for duty exhaust and may run the fan continuously during certain times.

National distributor shipping direct throughout the United States
TO PLACE ORDERS OR FOR MORE INFORMATION:
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WISCONSIN 800/962/7015 • WISCONSIN FAX 920/757/6452
HEADQUARTERS *40 Washington Street, Westborough, Massachusetts 01581 • www.efi.org/wholesale*

Panasonic Whisper Quiet Ceiling Fans

ENERGY FEDERATION INCORPORATED

WHISPER CEILING FAN AND FAN/LIGHT

5 5/8" Deep Housing

7 7/8" Deep Housing

- CFM rates from 50 to 380 available
- 3 models available with light and night light
  - Two 18w fluorescent lamps included with light units
  - Includes a 4w night light
- Light modules use 2 x 18w electronic lamps

	MODEL	CFM	SONES	POWER	DUCT
Fan Only					
5505.61	FV 05VQ3	50	0.3	13w	4"
5505.62	FV 08VQ3	80	0.3	23w	4"
5505.63	FV 11VQ3	110	0.8	31w	4"
5505.64	FV 15VQ4	150	0.6	31w	6"
5505.05	FV 20VQ3	190	1.3	42w	6"
5505.055	FV 30VQ3	290	2.0	64w	6"
5505.065	FV 40VQ3	380	3.0	112w	6"
2-Speed Fan					
5505.041	FV 11VQD2	60/110	0.3/1.5	18/27w	4"
Fan/Light					
5505.67	FV 08VQL4	80	0.3	25w	4"
5505.68	FV 11VQL4	110	1.0	36w	4"
5505.69	FV 15VQL4	150	1.2	36w	6"

OPTIONAL DESIGNER GRILLES

Fits the following fans:
- FV-05 and FV 08VK1
- FV-05, 08 and 11VQ3, FV-15VQ4

5505.272 FV GL3TDA Grid Grille — 13" Square
5505.273 FV GL3TDB Snowflake Grille — 14.4" Square

WHISPER FIT CEILING FAN AND FAN/LIGHT

TIP: Use these fans when remodeling and installing a fan between floors. These housings fit in 2 x 6 framing and come with a 4" to 3" adaptor in case you need to use the old ductwork. Change and update the ductwork if you can.

5 5/8" Deep Housing

7 7/8" Deep Housing

- Perfect for remodeling
- Housing is 5.625" deep
- Designed to fit in 2" x 6" framing between floors
- Includes a 4" to 3" adaptor for existing ductwork
- Available as fan only or with light and night light
  - Two 18w fluorescent lamps included with light units
  - Includes a 4w night light
- Light modules use 2 x 18w electronic lamps

	MODEL	CFM	SONES	POWER	DUCT
Fan Only					
5505.81	FV 05VF2	50	0.4	15w	4" or 3"
5505.82	FV 08VF2	80	0.8	25w	4" or 3"
5505.83	FV 11VF2	110	1.5	34w	4" or 3"
Fan/Light					
5505.85	FV 05VFL2	50	0.3	17w	4" or 3"
5505.86	FV 08VFL2	80	0.5	30w	4" or 3"
5505.87	FV 11VFL2	110	1.3	34w	4" or 3"

PANASONIC FAN REPLACEMENT LAMP

- Fits all lighted units

1000.30 18w 4 Pin Lamp — 3500K

Simple Fan Sizing Tip for a Single Room:

- With +/–8' ceilings and less than 15 equivalent feet of duct, multiply the square footage of the room by 1.10 and install the next size available.

Example:

80 square foot bathroom x 1.10 = 88 square feet, so look for a 90 or 100 CFM fan. If the ceiling is higher or vaulted, or the ductwork is longer, increase your selection by one size.

Panasonic Whisper Quiet Fans

ENERGY FEDERATION INCORPORATED

Whisper Value Production Grade Fans

- Ideal for production situations
- Can be mounted vertically or horizontally
- 3.75" deep housing fits in 2 x 4 framing
- Great up grade for affordable housing development

	MODEL	CFM	SONES	POWER	DUCT
Fan only					
5505.161	FV 05VS1	50	0.8	16	3"
5505.162	FV 08VS1	80	1.4	24	3"
5505.164	FV 10VS1	100	1.5	36.4	4"
Fan/Light — 2 x 18w CFLs					
5505.163	FV 08VSL1	80	1.3	24	3"
5505.165	FV 10VSL1	100	1.5	36.6	4"

Whisper Warm Fans — Fan/Heater Fan/Heater with Light and Night Light

Fan Only

	MODEL	CFM	SONES	POWER	DUCT	AMP
				Fan/Heater		
5505.111	FV 11VH2	110	0.6	31w/1,400w	4"	12.2
				Fan/Light/Heater		
5505.112	FV 11VHL2	110	0.7	31w/36w/1,400w	4"	12.5

Radiation Damper for Panasonic Ceiling Fans

8 5/8" Deep Housing

- Fits the following models:
  - Whisper Ceiling Fan 05-11VQ3 and 15VQ4
  - Whisper Fit Fan 05-11VF2
  - Whisper Green Fan 08VKS1 and 08VK1
  - *Not compatible with lighted units, motion sensing units or large units*
- Used in projects requiring fire-blocking between floors
- Exceeds UL555c for use in a 1, 2, or 3 hour fire rated floor-ceiling
- Wharnock-Hersey classified for wood frame assemblies
- 165°F fusible link
- High temperature, non-asbestos, reinforced fiber thermal fabric
- Galvanized steel frame

5505.21 Radiation Damper #PC-RD05C3 for Panasonic Fans

Whisper Wall Fan

- Duct adjusts to wall thickness — up to 10"
- White outside metal vent hood with damper is included

	MODEL	CFM	SONES	POWER	DUCT
5505.25	FV 08WQ1	70	1.1	18w	8"

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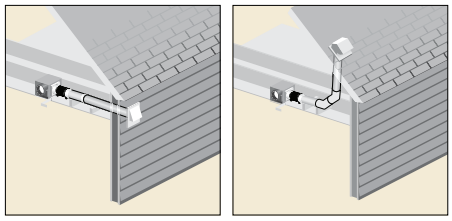
Ventilation Solutions, Options and Tips

Ceiling Surface Mounted Fans

- Use for single point or spot ventilation
- Use timers or speed controls for continuous or intermittent whole house ventilation

Exhaust through a wall to avoid bends



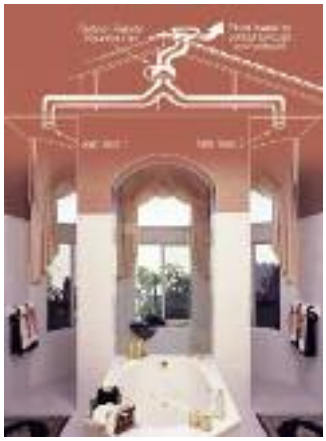
Ductwork Tips and Techniques

- Use rigid duct whenever possible for better air flow
- If using flex duct, support it with strapping to avoid dips
- Use a short piece of flex duct at the fan connection to break vibration noise in the duct
- Insulate any ducts in un-conditioned spaces to avoid condensation and energy loss
- Think in straight lines — avoid as many elbows as possible
- Two 45° elbows allow better airflow than one 90°
- Expanding the duct from 4" to 6" promotes better air flow and reduces noise
- Seal all joints, seams and connections with mastic. See page 31. Use duct tape for anything except ducts.
- Run ducts in inside walls if possible. Make duct runs continuous. Wall cavities are not ducts.
- Shorter runs perform better — locate ventilation equipment to achieve short duct runs and good performance

Remote Fans: In-line, Roof Mounted, Outdoor Wall Mounted

- Can be used to ventilate single point or multiple points
- Can be used for Range Hoods — taking much of the noise out of the kitchen
- Can be used to boost dryers with long runs
- Can be used to circulate heat or AC for overall balance
- Can be used for sub-slab or crawl space ventilation
- Use timers or speed controls for continuous or intermittent whole house ventilation

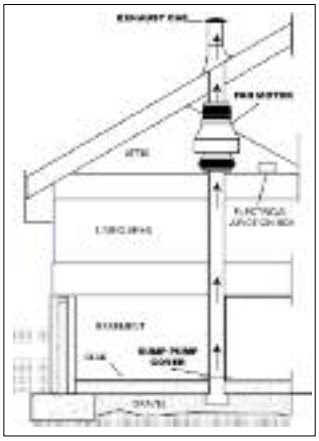
Single or Two-point Exhaust



Range Hood Exhaust

Dryer Boost

Sub Slab or Crawl Space Ventilation



Venting Down and Out

Remote Mounted Fan or HRV

Venting Up and Out

Remote Mounted Fan

Fantech Range Hood Liners

ENERGY FEDERATION INCORPORATED

RANGE HOOD LINERS FOR USE WITH CUSTOM RANGE HOODS

48" SHL

- Pre-wired for use with remote in-line or exterior fans
- Dimmable halogen lights included
- Variable speed control included
- Removable and washable aluminum filters
- See page 55 for dimensions

TIP: Take the noise out of the kitchen by using a remote exhaust fan with a hood liner.

When installing the Fantech Custom Range Hood Liner, the typical application will include the liner, a duct silencer and a remote mounted fan.

All Stainless Steel Range Hood Liners
- Heavy duty 22 gauge stainless steel
- Available in 36", 42" and 48" widths

		W x H x D	DUCT
5501.72	36" SHL Range Hood Liner	34.5" x 6" x 22"	8"
5501.741	42" SHL Range Hood Liner	40.5" x 6" x 22"	10"
5501.73	48" SHL Range Hood Liner	46.5" x 6" x 22"	10"

Stainless Steel and Galvanized Range Hood Liners
- Stainless steel face with galvanized steel housing
- Available in 30" and 36" widths

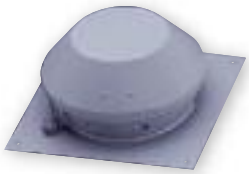
		W x H x D	DUCT
5501.752	30" SGHL Range Hood Liner	28.5" x 4" x 18"	6"
5501.753	36" SGHL Range Hood Liner	34.5" x 4" x 18"	8"
1000.7	50w Replacement Bulb for Hood Liner		

NOTE: Call for replacement filters if needed.

RECOMMENDED FANS AND DUCT SILENCERS

FG

RE



RVF

Duct Silencer

Backdraft Damper

- CFM Rates Measured at .2" WC

In Line Fans		CFM	DUCT
5501.305	FG 6	270	6"
5501.306	FG 6XL	450	6"
5501.307	FG 8	410	8"
5501.308	FG 8XL	470	8"
Roof Mounted Fans			
5501.49	RE 8XL	356	8"

Outdoor Wall Mounted Fan		CFM	DUCT
5501.62	RVF 6	204	6"
5501.63	RVF 6XL	346	6"
5501.64	RVF 8XL	392	8"
4530.12	6" Duct Silencer — 10.25" x 23.5"		
4530.13	8" Duct Silencer — 12.50" x 23.5"		
5540.1	6" Backdraft Damper		
5540.12	8" Backdraft Damper		

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Fantech Premium Bath Fans

ENERGY FEDERATION INCORPORATED

Single Point Exhaust Fans

- Includes fan motor with ceiling grille, housing, and back draft damper

	MODEL	CFM	FAN DUCT	HOUSING DUCT	GRILLE
In-Line Exhaust Fans					
5501.914	PB-100-V	100	4"	4"	Vent Only
5501.915	PB-100-F	100	4"	4"	14w Fluorescent
5501.916	PB-100-H	100	4"	4"	50w Dimmable Halogen
5501.922	PB-190-V	190	6"	6"	Vent Only
Exterior Wall Mount Fans					
5501.917	PBW-110-V	110	4"	4"	Vent Only
5501.918	PBW-110-F	110	4"	4"	14w Fluorescent
5501.919	PBW-110-H	110	4"	4"	50w Dimmable Halogen

2 Point Exhaust Fans — Includes "Y" Pipe

- Includes fan motor, 2 ceiling grilles and housings and back draft dampers, and "Y" Pipe

	MODEL	CFM	FAN	HOUSING DUCT	GRILLE DUCT
5501.931	PB-150-V2	150	4"	4"	Two Vent Only
5501.932	PB-150-F2	150	4"	4"	Two 14w Fluorescent
5501.933	PB-150-H2	150	4"	4"	Two 50 Dimmable Halogen
5501.923	PB-230-V2	230	6"	4"	Two Vent Only
5501.924	PB-230-F2	230	6"	4"	Two 14w Fluorescent
5501.925	PB-230-H2	230	6"	4"	Two 50w Dimmable Halogen
5501.935	PB-370-V2	370	6"	6"	Two Vent Only
5501.927	PB-230-F-V	230	6"	4"	One 14w Fluorescent One Vent Only
5501.928	PB-230-H-V	230	6"	4"	One 50w Dimmable One Vent Only

Ceiling Grille Units with Housing and Back Draft Damper

- Includes housing with lamps, hanger bars and back draft damper
- UL "Wet Location" rating and IC "Insulation Contact" Rating
- Three styles available

14w Fluorescent Light

Vent Only — No Light

50w Dimmable Halogen Light

5501.911 PB-V4 6" Ceiling Grille with 4" Discharge — Vent Only
5501.912 PB-F4 6" Ceiling Grille with 4" Discharge — 14w Fluorescent
5501.913 PB-H4 6" Ceiling Grille with 4" Discharge — 50w Dimmable Halogen
5501.921 PB-V6 6" Ceiling Grille with 6" Discharge — Vent Only

Replacement Lamps for Fantech Ceiling Grilles

1000.961 14w Fluorescent 4-pin Replacement Lamp
5501.7511 50w Halogen Replacement Lamp

Fantech Ventilation Fans

ENERGY FEDERATION INCORPORATED

TIP: Use these remote mounted fans for exhausting bathrooms, laundry rooms, basements and crawl spaces. Remote mounted fans can exhaust from multiple points in large rooms or from separate rooms with one fan. They can be used for dryer boosting, kitchen range hoods or for re-circulating heat or AC within a building. See page 12 for more ideas.

FR SERIES IN-LINE FANS

- Can be installed vertically or horizontally
- Thermoplastic housing
- UL Listed for outdoor use and wet locations

	MODEL	CFM	POWER	DUCT
5501.10	FR 100	100	19w	4"
5501.101	FR 110	150	80w	4"
5501.11	FR 125	120	18w	5"
5501.110	FR 140	190	61w	6"
5501.12	FR 150	230	71w	6"
5501.13	FR 160	260	129w	6"
5501.15	FR 200	360	122w	8"
5501.16	FR 225	400	137w	8"
5501.17	FR 250	600	241w	10"

FG SERIES IN-LINE FANS

- Can be installed vertically or horizontally
- Airtight, galvanized steel housing
- Use with range hoods and commercial applications

	MODEL	CFM	POWER	DUCT
5501.301	FG 4	110	20w	4"
5501.302	FG 4XL	150	71w	4"
5501.303	FG 5	130	20w	5"
5501.304	FG 5XL	190	73w	5"
5501.305	FG 6	270	72w	6"
5501.306	FG 6XL	450	153w	6"
5501.307	FG 8	410	119w	8"
5501.308	FG 8XL	470	142w	8"
5501.309	FG 10	480	138w	10"
5501.312	FG 12	680	181w	12"

DRYER BOOST KIT

- Use with dryers that have duct runs between 30' – 130' equivalent length
- Mount at least 15' from the dryer
- Senses pressure and runs in 10 minute cycles when the drier is on
- DBF-4XL — Galvanized housing, pressure switch attached, 3 prong plug attached, insert pressure tube in the duct
- DBF-110 — Thermoplastic housing, pressure switch attached with tube installed in the fan collar, bring power to the fan junction box — no plug
- 4" duct, 150 CFM, 83w

5501.391 Fantech Dryer Boost DBF-4XL with Pressure Switch
5501.39 Fantech Dryer Boost DBF-110 with Pressure Switch

5501.71 DB-10 Pressure Switch Only

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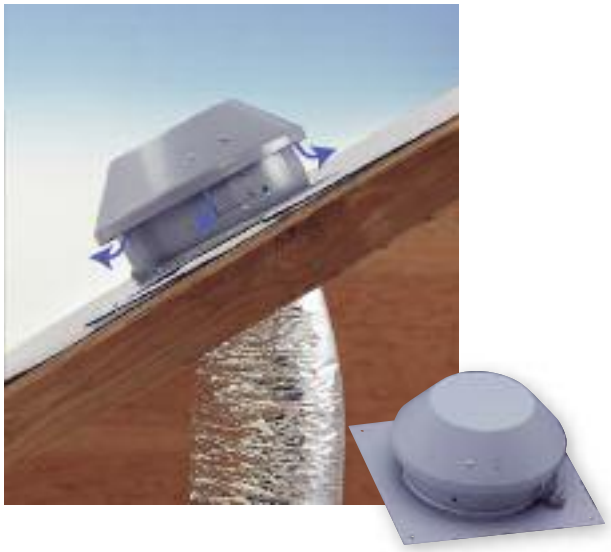
Fantech Ventilation Fans

ENERGY FEDERATION INCORPORATED



RE and REC Series Roof-Mounted Exhaust Fans

- Available to fit both pitched roofs and flat roofs
- Can be roof mounted or wall mounted
- Permanently lubricated sealed ball bearings
- 100% speed controllable
- RE fans have a flat base
- REC fans have a 1/2" depth box designed to be installed on a roof curb

	MODEL	CFM	POWER	DUCT
5501.47	RE 6	199	87w	6"
5501.49	RE 8XL	356	148w	8"
5501.50	RE 10XL	721	394w	10"
5501.52	REC 6	199	87w	6"
5501.53	REC 8XL	356	148w	8"
5501.54	REC 10XL	721	394w	10"

RVF Series Exterior Wall-Mounted Exhaust Fans

- Rugged construction for exterior use
- External rotor motor with built in thermal protection
- 100% speed controllable

	MODEL	CFM	POWER	DUCT
5501.60	RVF 4	98	19w	4"
5501.61	RVF 4XL	172	92w	4"
5501.62	RVF 6	204	92w	6"
5501.63	RVF 6XL	346	149w	6"
5501.64	RVF 8XL	392	151w	8"

Multi-Port Exhaust Fans

- Great for commercial applications
- Install over drop ceilings and limited space applications
- Eliminate the use of adapters and transitions

	MODEL	CFM	POWER	DUCT
5501.44	CVS 275A	220	92w	2 intakes @ 5" 1 exhaust @ 6"
5501.45	CVS 300A	320	123w	4 intakes @ 4" 1 exhaust @ 6"
5501.46	CVS 400A	380	156w	4 intakes @ 4" 1 exhaust @ 6"

Broan Quiet Exhaust Fans

ENERGY FEDERATION INCORPORATED

BROAN QUIET EXHAUST FANS

- All Broan fans are manufactured in the USA, in Hartford, WI.
- CFM Rates from 80 to 150 CFM available
- QTXE Models feature 6" Duct for better performance
- Models with lights use the following:
  - 42w Fluorescent bulb, 3,500° Kelvin, 125w equivalent
  - 4w Incandescent nightlight — not included
- UL listed for use over tubs and showers when connected to a GFCI circuit

Fan Only Units

	MODEL	CFM	SONES	POWER	DUCT
5507.381	QTXE 050	50	<0.3	19.7w	6"
5507.382	QTXE 080	80	0.3	23.3w	6"
5507.383	QTXE 110	110	0.7	33.5w	6"
5507.384	QTXE 150	150	1.4	51.3w	6"
5507.369	QTRE 080	80	0.8	28.2w	4"
5507.37	QTRE 110	110	1.3	36.6w	4"

Fan with Light Units

	MODEL	CFM	SONES	POWER	DUCT
5507.392	QTXE 080 FLT	80	0.3	23.3w	6"
5507.393	QTXE 110 FLT	110	0.7	33.5w	6"
5507.394	QTXE 150 FLT	150	1.4	51.3w	6"
5507.371	QTRE 080 FLT	80	0.8	28.2w	4"
5507.372	QTRE 110 FLT	110	1.3	36.3w	4"
1000.285	42w Replacement Lamp Reflector				

HUMIDITY SENSING FAN AND FAN/LIGHT

6" Duct

- Sensor detects rapid rise in humidity
- Can be set to run automatically or manually
- Auto shut-off time is adjustable from 5 to 60 minutes
- Helps prevent lingering moisture which can cause damage and mold
- Available as fan only or fan light
- Light is a 42w CFL. 3,500° Kelvin

	MODEL	CFM	SONES	POWER	DUCT
Fan Only					
5507.365	QTXE 110S	110	0.7	35w	6"
Fan with Light					
5507.367	QTXE 110SFLT	110	0.7	35w	6"
1000.285	42w Replacement Lamp				

RECESSED FAN/LIGHT UNIT

4" Duct

- 70 CFM at 1.5 sones
- Standard White trim
- Uses a 14w R30 Fluorescent — included
- UL listed for use over tubs and showers when connected to a GFCI circuit
- 6.875" high housing appropriate for new construction and 2 x 8 ceilings
- 4" round duct connector
- Type IC sealed housing

	MODEL	CFM	SONES	POWER	DUCT
5507.364	Broan 744FL	70	1.5	29w	4"
1000.961	42w Replacement Lamp — Reflector				

National distributor shipping direct throughout the United States
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Whole House Exhaust Fans

ENERGY FEDERATION INCORPORATED

TAMARACK TECHNOLOGIES WHOLE HOUSE FANS

These Whole House Fans offer an energy efficient way to cool down your house without using air conditioning when the outside temperature is lower than the inside temperature.

High quality, balanced fan motors draw outside air into your home through doors and windows while blowing indoor air up into the attic where it leaves the house through ridge, soffit or gable vents. Approximately one square foot of net free area is required for every 1,000 CFM of air movement.

Unlike other whole house fans, these units include a motorized, insulated cover that closes when not in use, keeping the attic air isolated from the main house.

Installation is easy. These fans are designed to fit either 16" or 24" on-center framing. Simply box in the unit, make the electrical connections and install the ceiling grille. Units with remote controls simply plug in to a 3-prong socket.

HV-1000
- 1,000 CFM
- 1 speed
- Service up to 1,200 square feet

5502.15 HV-1000 R-22 with hardwire wall switch
5502.161 HV-1000 R-38 with hardwire wall switch

5502.152 HV-1000 whole house remote control upgrade

HV-1600 with Remote Control
- 1,600 CFM
- 2 speed
- Service up to 2,000 square feet

5502.166 HV-1600 R-22 with 2 speed remote
5502.163 HV-1600 R-38 with 2 speed remote

PRODUCT COMPARISON	HV-1000	HV-1600
Airflow — CFM	1,000	1,600
Control	HW wall switch	2-speed remote
Suitable House Size	Up to 1,200 SF	Up to 2,000 SF
Power Usage	112w	276w
R-Value of Door	R-22 or R-38	R-22 or R-38
Rough Opening	14.5" x 22.5"	14.5" x 22.5"
Grille Dimension	16" x 26"	16" x 26"
Net Free Area required in the attic for air to move out	1 square feet	1.5 square feet
Clearance requirement	12" min	12" min

MANUFACTURED HOUSING BATH FAN REPLACEMENT — 7"

The Mainstream Fan is a direct replacement for ceiling mounted, through the roof exhaust fans found in a majority of manufactured housing units. This fan gives the installer the opportunity to replace a noisy, in-efficient fan with a quiet energy efficient unit. The fan installs from the inside, comes with a new grille and utilizes the existing roof cap.

- Easy to install — replaces existing 7" fan
- Quiet — 1.5 sones
- 90 CFM
- Rated for continuous operation
- Energy efficient — draws 19 watts
- Durable back draft damper keeps cold air from coming in when not in use
- Includes ceiling grille
- Optional switch available for timed ventilation
- 5 year product warranty

5502.09 Mainstream Fan with Timer
5502.10 Mainstream Fan Only

Ventilation Accessories

ENERGY FEDERATION INCORPORATED

Exhaust/Supply Grilles and Collars

Designer Style

- Low profile, not adjustable
- Matches Fantech grille-light unit

5540.001 4" Designer Exhaust Grille
5540.003 6" Designer Exhaust Grille

Traditional Style

- Adjustable, use for both exhaust and supply
- Diffuses air across ceiling or wall

5540.01 4" or 5" Adjustable Supply/Exhaust Grille
5540.02 6" Adjustable Supply/Exhaust Grille
5540.030 8" Adjustable Supply/Exhaust Grille with mounting collar

Galvanized Mounting Collars

- Nailing flange attaches to ceiling joist
- Serves as an anchor to attach duct work and pressure fit grilles

5540.04 4" Mounting Collar
5540.05 5" Mounting Collar
5540.06 6" Mounting Collar

Drop-Ceiling Style

- Adjustable, use for both exhaust and supply
- Diffuses air across ceiling or wall
- Includes mounting flange/collar

5540.032 4" Boflex Supply & Exhaust Grille
5540.033 5" Boflex Supply & Exhaust Grille
5540.031 6" Boflex Supply & Exhaust Grille

Backdraft Dampers

Backdraft Dampers stop outside air from coming in the building when the fan is turned off.

- Light duty spring with gasket seal
- Use with Fantech fans

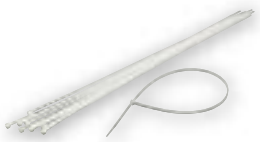
5540.08 4" Backdraft Damper
5540.09 5" Backdraft Damper
5540.1 6" Backdraft Damper
5540.12 8" Backdraft Damper
5540.13 10" Backdraft Damper
5540.14 12" Backdraft Damper

- Cloth sleeve damper causes very little resistance to air flow
- Use with Panasonic fans if running 2 fans to one outlet

5540.075 4" Cape Style Backdraft Damper
5540.076 6" Cape Style Backdraft Damper

Insulated Flex Duct

TIP: Insulated flex duct may be used in certain circumstances, however we suggest using rigid ducts whenever possible. Potential dangers include the possibility of dips, sags and bends in the flex duct that can diminish performance of the system. Use only in short runs.



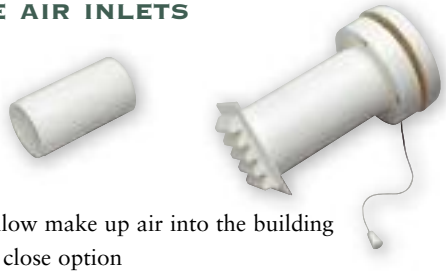
4530.01 4" x 25' Insulated Flex Duct
4530.03 6" x 25' Insulated Flex Duct
4530.05 8" x 25' Insulated Flex Duct
4530.50 36" Zip Ties, bundle of 50

In-Line Fan and Duct Mounting Clamps

- Used to attach metal ductwork to Fantech fans
- Rubber lining to break vibration

5510.40 4" Mounting Clamps (Pair)
5510.41 5" Mounting Clamps (Pair)
5510.42 6" Mounting Clamps (Pair)
5510.43 8" Mounting Clamps (Pair)
5510.44 10" Mounting Clamps (Pair)
5510.45 12" Mounting Clamps (Pair)

Passive Air Inlets



- Used to allow make up air into the building
- Complete close option
- Draft-free diffusion with adjustable airflow
- Removable filter for cleaning

5510.68 Fresh 80 Ventilator (20 CFM) 3.25" Duct
5510.681 Fresh 80 Extension Sleeve (For 8"–14" wall)
5510.69 Fresh 100 Ventilator (30 CFM) 3.75" Duct
5510.691 Fresh 100 Extension Sleeve (For 8"–14" wall)

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Ventilation Accessories

ENERGY FEDERATION INCORPORATED

Ductwork Components

"Y" Connectors

4530.30 4" x 4" x 4" Y Duct
4530.31 6" x 6" x 6" Y Duct
4530.33 6" x 4" x 4" Y Duct
4530.32 8" x 8" x 8" Y Duct
4530.321 8" x 6" x 6" Y Duct

Reducers/Increasers

4530.36 8" to 6" Metal Reducer/Increaser
4530.35 6" to 4" Metal Reducer/Increaser
4530.34 4" to 3" Metal Reducer/Increaser

4530.402 6" to 4" Plastic Reducer/Increaser

Elbows
• Transition 4" oval to 4" round

4530.37 90° Plastic Elbow for 2 x 4 wall

• Can be angled at 45° and 90°

4530.38 4" Galvanized Elbow
4530.39 6" Galvanized Elbow

Duct Silencers
• Used to reduce noise in rigid ducts — acts as a muffler
• Mount in any orientation

4530.10	4" Duct Silencer	8" x 23.5"
4530.11	5" Duct Silencer	9" x 23.5"
4530.12	6" Duct Silencer	10.25" x 23.5"
4530.13	8" Duct Silencer	12.5" x 23.5"
4530.14	10" Duct Silencer	14" x 35.5"
4530.15	12" Duct Silencer	17.75" x 35.5"

Outdoor Exhaust Hoods and Louvers

Roof Mounted — Painted metal

4510.41 4" Black Roof Cap w/collar
4510.411 4" Black Roof Cap only
4510.410 4" Connector Collar only

4510.40 6" Black Roof Cap includes collar

Black Model 843

Wall Mounted — Metal

4510.461 3" or 4" Black Model 885-BL
4510.52 6" Black Model 843-BL
4510.54 3" or 4" Aluminum Model 885-AL
4510.521 6" Aluminum Model 641
4510.46 8" Aluminum Model 643
4510.55 12" Aluminum Model 613

Aluminum Model 643

4510.51 Dryer Vent Closure w/Spring Assist
• Stops air from coming back into the dryer

4510.5 3.25" x 10" Metal Wall Cap w/flap

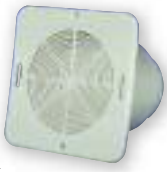
4510.02 4" White Plastic Hood w/flap and w/6" Tail
4510.03 4" Brown Plastic Hood w/flap and w/6" Tail

5501.447 6" White Metal Hood w/Screen, 8" Tail

5510.60 4" White Plastic Louver w/6" Tail
5510.61 5" White Plastic Louver w/6" Tail
5510.62 6" White Plastic Louver w/6" Tail

5540.30 4" Plastic Intake Grille — White
5540.322 4" Plastic Intake Grille — Brown
5540.32 6" Plastic Intake Grille — White
5540.321 6" Plastic Intake Grille — Brown

Soffit Mounted
• Mounts flush to soffit
• Built in back draft damper
• 6.5" Square — plastic



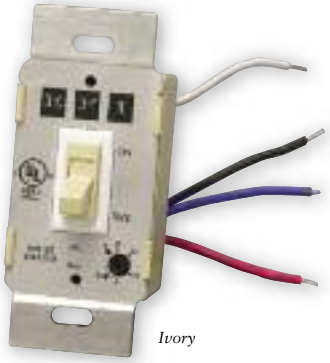
4510.3 4" or 5" Duraflo Soffit Vent — White
4510.32 4" or 5" Duraflo Soffit Vent — Brown

Information:

All of our timers are compatible with standard residential wiring, 120 vac. Some require 120 vac power to operate the timer itself. Most require grounding. It is best to have a licensed electrician install fans and timers to insure safety and code compliance.

Some of the timers are programmable, some have a speed control option and some have an override function so as to use the fan on full speed for a period of time. Please call if we can help you with your selection.

FAN DELAY TIMER SWITCH



Ivory

- 4 wires, plus ground
- Fits in a single gang box, can be installed in 2 or 3 gang boxes
- Allows extra ventilation after the occupant has left the bathroom
- 50 Switches per case

A two-function switch that is typically wired to a fan and a light. When entering the bathroom, flipping the switch turns on both the fan and light. When leaving, flipping the switch turns off the light, and starts the timer allowing the fan to continue running for a preset time. A dial under the faceplate is used to set the delay off time from 5–60 minutes. Usually 25 minutes is the ideal setting to clear the bathroom of moisture.

5100.504 Fan Delay Timer — White
5100.505 Fan Delay Timer — Ivory
5100.506 Fan Delay Timer — Almond

Almond

White

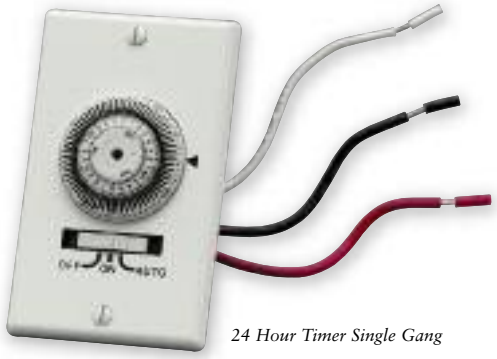
LINE VOLTAGE DEHUMIDISTAT

- 2 wires
- Surface mounted control, requires its own box
- Range = 20%–80% R.H.

Often wired in parallel with an on-off wall switch, dehumidistats are used to insure that a fan will run when humidity rises. The best place to locate a dehumidistat is in the bathroom, high on the wall. The unit has a dial that can be adjusted to respond to various levels of humidity.

5005.02 Line Voltage Dehumidistat

24 HOUR ELECTRO-MECHANICAL TIMER



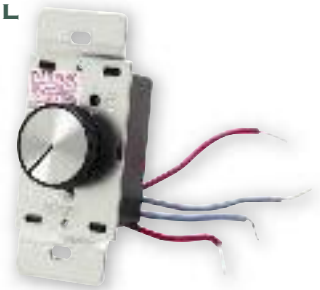
24 Hour Timer Single Gang

- 3 wires
- Fits in a single gang box, comes with its own faceplate
- Allows the homeowner to use an exhaust fan for background ventilation

With 72 pins representing 20 minutes each, an on-off pattern can be set that suits the homeowner's needs. i.e. 20 minutes per hour, 20 minutes every 2 hours, 20 minutes per hour part of the day and 40 minutes per hour part of the day. This timer also has a three-position slide switch — off, auto and on. If the homeowner does not need the fan running, slide the switch to "off". Use it on "auto" for a timed on/off pattern. Slide the switch to "on" and the fan will run continuously. Often this timer is located out of sight and wired in parallel with an on/off wall switch that will run the fan as needed.

5010.2 24 Hour Timer Single Gang
5010.22 24 Hour Timer 2 Gang — One Toggle
5010.24 24 Hour Timer 3 Gang — Two toggles

VARIABLE SPEED CONTROL



- 4 wires
- Can be used with an over-ride switch
- Fits in a single gang box

Line voltage speed controls, used to run a fan at lower than full speed. Can be installed on its own or in parallel with an on/off switch so that the fan will run at low speed continuously and have the ability to override for full speed boost. **NOT COMPATIBLE WITH PANASONIC FANS.**

5510.32 Dial Speed Control — Brushed Steel

30-15-10-5 OR 60-30-20-10 ELECTRONIC TIMER

- 4 wires
- Fits in a single gang box, can be installed in 2 or 3 gang boxes
- Decora style faceplate

Allows the homeowner to choose the appropriate amount of run time. There are five small buttons with LED lights that indicates run time. "Off" can be used to cancel the run.

5010.71 30-15-10-5 Minute Timer — White
5010.70 30-15-10-5 Minute Timer — Ivory

5010.743 60-30-20-10 Minute Timer — White
5010.744 60-30-20-10 Minute Timer — Ivory

120-60-30-15 MINUTE TIMER

- 3 wires plus ground
- Fits in a single gang box, can be installed in 2 or 3 gang boxes
- Decora style faceplate

Allows the homeowner to choose the appropriate amount of run time. One switch comes with white and ivory over lays. Finger pad style power button used to both start the run or cancel it.

5010.046 120-60-30-15 Minute Timer — White/Ivory

60 MINUTE MECHANICAL TIMER

- Requires 2 wires
- Fits into a single gang box, can be installed in 2 or 3 gang boxes
- Comes with white and ivory plates for both Toggle and Decora style

A mechanical spring wound timer that allows the homeowner to turn the fan on for a period of up to 60 minutes.

5010.045 60 Minute Timer — White/Ivory

FAN CONTROLS — TIMED LOW SPEED VENTILATION WITH BOOST

- 3 Wires, 120v, 2.5 amp
- Fits in single or multiple gang boxes
- Use up to 3 auxiliary units with one main unit
- Allows low speed ventilation with 20 minute boost

Ideal control to install when using a remote mounted fan for venting multiple points. Use the Main Control — VT20M — to set the number of minutes per hour and the speed at which the fan will run. The same number of minutes per hour will repeat throughout the day. Can be set to run the fan continuously at low speed.

Use up to 3 auxiliary controls in other locations. Once installed, pushing the pad on either the main control or one of the auxiliary controls will boost the fan to high speed for 20 minutes. Blue LED indicates boost mode. Helps builders meet the ventilation requirement of ASHRAE 62.2.

5510.36 Ventech Main Control — VT20M
5510.37 Ventech Auxiliary Control — VT20A

24 HOUR ELECTRONIC PROGRAMMABLE TIMER

- 3 Wires
- Fits a single gang box
- Allows the homeowner to use an exhaust fan for background ventilation
- Two operating modes — manual and auto

The installer may set up to 7 on/off cycles within a 24 hour period. Once the cycles are set, each individual cycle can be set for one day or all seven days. Even while running in the auto mode, the plate can be used to turn the switch on and off as needed. The LED screen displays the date and time.

5010.81 Seven Day Electronic Timer — White

Airetrak Advantage ™

- 4 wires plus ground
- Fits in a single gang box, can be installed in 2 or 3 gang boxes
- Decora style plate
- Independent fan and light controls
- 24 hour clock display
- 120 vac, 2.5 amps, 300w max output

The Airetrak Advantage™ allows the installer to set up a pattern of low speed operation for the fan, giving the occupant the ability to boost the fan to full speed when needed.

The low speed pattern is set in 5 minutes segments over either 12 or 24 hours. Choose the low speed, choose how many minutes per hour, (5, 10, 20 etc), then choose to repeat this pattern for either 12 hours or 24 hours. At the top of each hour the fan will come on for the set time at the set speed.

The full speed boost function can be set for 20 minutes, 40 minutes or continuous. Use the "Fan Only" button to boost the fan without turning on the light, use the "Fan & Light" button to turn on both. Push the button again to stop the override and return to the low speed operation.

5010.431 Airetrak Advantage Timer — White

Reverse Thermostat

- 2 wires
- Surface Mounted Control, requires its own box

Available in beige only. Often used with whole house cooling fans and for recirculating heat from wood stoves. With a range of 80°F to 130°F, this control will turn a fan on when the temperature rises and turn it off when the temperature falls.

5010.62 Reverse Thermostat — Beige

AirCycler FR
AirCycler FR-V

The AirCycler FR is a timing device that can be used to circulate fresh air throughout the home. It can be used in homes that have a ducted heating or air conditioning system.

The AirCycler FR will periodically run the furnace blower motor if the thermostat has not called for heat or air conditioning for a set period of time. With an exhaust fan running in the home, this action will serve to distribute incoming fresh air throughout the home by mixing the indoor air.

The FR-V model contains an extra relay that is wired to a motorized damper installed in an intake duct for the purpose of bringing fresh air directly in to the duct system when the furnace blower motor is turned on by the AirCycler.

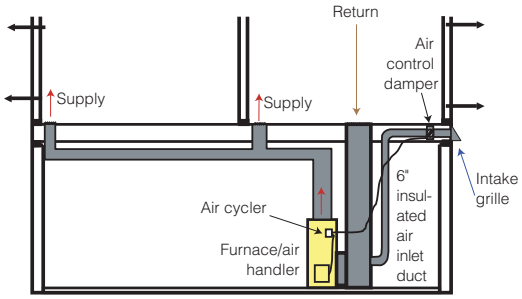
5010.75 AirCycler Timer Model FR
5010.751 AirCycler Timer Model FR-V

Parts used with the FR-V model to bring in fresh air:

5540.3 6" Air Control Damper NC Low voltage (normally closed)

5540.32 6" Intake Grille — White
5540.321 6" Intake Grille — Brown

Installation Example



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Super Efficient HVAC System Blower Motor

ENERGY FEDERATION INCORPORATED

CONCEPT 3™ MOTOR

The Concept 3™ motor is a brushless, permanent magnet motor.

The Concept 3™ motor is a drop-in replacement for the common Permanent Split Capacitor (PSC) motor that is used in most furnaces, air conditioners and heat pump systems using a 24v thermostat.

- Low watt draw per delivered CFM in both heating and cooling
- Speed controllable
- Built in fan control algorithms for; dry, wet and mixed climates
- Full wiring harness for easy installation — uses existing wiring block
- Adjustable 0.5 to 0.25 Hp
- Can be installed in less than 1 hour by a qualified HVAC technicians
- 2 year warranty

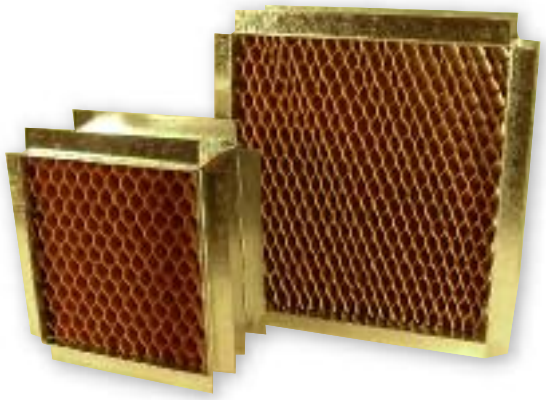
7000.601 Concept 3™ Motor

Why the Concept 3™ motor is better than the standard PSC motor:

- Lower wattage use at any speed
- Realize immediate energy savings
- Built in intelligence for super efficient operation in dry, humid and mixed climates
- Wider range of speed settings

PRESSURE BALANCING RETURN AIR PATHWAYS

- Relieves pressure differences within a house helping to balance a ventilation, heating or air conditioning system
- Designed to limit the transfer of light and sound while allowing air to move through the wall
- Flange extends 2" beyond opening
- Includes 2 white wall grilles



	R.A.P	AIRFLOW@ 2.5 PASCALS	OPENING	GRILLE SIZE
5510.684	12.4	48 CFM	12" x 4"	13.75" x 5.75"
5510.685	10.6	61 CFM	10" x 6"	11.75" x 7.75"
5510.682	8.8	65 CFM	8" x 8"	9.75" x 9.75"
5510.686	12.6	69 CFM	12" x 6"	13.75" x 7.75"
5510.687	14.8	109 CFM	14" x 8"	15.75" x 9.75"
5510.683	12.12	127 CFM	12" x 12"	13.75" x 13.75"

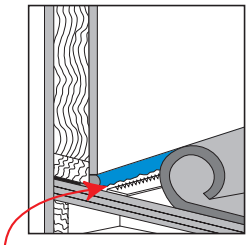
Airflow for an undercut door:
30" Door with .5" gap — 25 CFM
30" Door with 1" gap — 50 CFM

Example: If 177 CFM is being delivered to a room, using a 1" gap under the door and a 12 x 12 Return Air Pathway can relieve the pressure. (50 + 127 = 177 CFM)

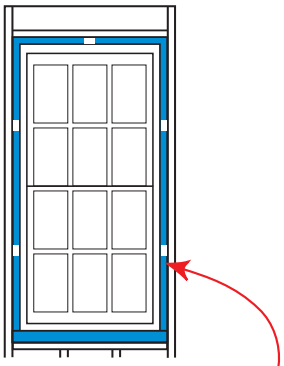
Low Expansion Foam Information

Using Low Expansion Foam

Low expansion foam should be thought of as an Air Sealing product that can be used to block air leaks in buildings from inside to outside, from outside to inside, and from room to room within the structure. Typically used for small holes, seams and linear gaps, low expansion foam is a quick and economical way to help make buildings more comfortable and energy efficient.



Low expansion foam used along floor wall intersection



Low expansion foam used to seal the gap around windows and doors

Uses and Information

- Use for:
  - Cracks and small openings around windows and doors
  - Plumbing, HVAC and electrical penetrations
  - Seams and small openings in framing
- Single component — moisture cured. Moisture from the air or surface of wood promotes curing. Use a spritzer during very cold, dry weather to induce curing.
- 20 minutes to full cure. Less than 10% expansion when cured
- The can of foam remains attached to the gun between uses eliminating waste
- The trigger can be set to control the bead size
- Cleaner should be used infrequently

TODOL PRODUCTS GUN FOAM STARTER KIT

Gun and Foam Starter Kit
- Ideal for carrying and storing foam/gun assembly

3530.10 Gun and Foam Starter Kit includes:
- Carrying case
- Pageris gun
- Two 33 oz canisters of PUR FILL 1G
- 10 Disposable needle tips for Pageris gun
- Can spray cleaner

3530.11 Carrying Case for Gun and Foam

ONE TIME USE SYSTEM FOAM

- Each Kit comes with a 10' hose and wand
- Meets ASTM E-84, E-814 and UL-1715
- Yields: 10 lb kit = 3,800 linear feet @ 1/2" bead
  16 lb kit = 6,100 linear feet @ 1/2" bead

***3530.02** 10 lb Polyurethane Foam System
***3530.022** 16 lb Polyurethane Foam System

3530.025 Extra 10' Gray Hose with Wand

- Attach hose directly to a gun for neater application
- Shut-off valve included on the gun

6510.307 Bottom Load Gun for 10 and 16 lb Tanks

NOTE: 10 & 16 lb tanks and 200 and 600 kits shipped via UPS require a $20.00 Haz-Mat charge per unit.

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Low Expansion Foam

ENERGY FEDERATION INCORPORATED

TODOL PRODUCTS GUN FOAM

Pur-Fil Foam and Construction Adhesive
- Less than 10% expansion
- 20 minute cure time

3530.04 PUR FILL 1G Foam — 33 oz or 750 ml (1,600 linear feet @ 3/8" bead)

3530.044 PUR FILL WF Window Foam — 24 oz or 500 ml (1,280 linear feet @ 3/8" bead)

3530.042 PUR Black Foam — 33 oz or 750 ml (1,600 linear feet @ 3/8" bead)

3530.043 PUR STICK Construction Adhesive
24 oz — one can is equivalent to 8–10 quart tubes
Tested and approved
ASTM: C-557, APA: AFG-01

TOUCH 'nSEAL GUN FOAM

3530.20 Touch 'nSeal All Season — 24 oz
- Can be dispensed down to 20°F
- Must use mister for curing
- 977 linear feet @ 3/8" bead

3500.64 Touch 'nSeal No-Warp — 20 oz
- Exerts less curing pressure
- 932 linear feet @ 3/8" bead

3530.25 Touch 'nSeal Fireblock — 24 oz
- ASTM 814 Tested
- Type V Residential Fireblock with orange pigment
- ICC certified ESR-1926
- 1,420 linear feet @ 3/8" bead

6570.01 Foam Gun Cleaner

FOAM GUNS AND ACCESSORIES

Professional Grade

6510.03 Pageris Foam Gun — Professional Grade

6510.04 2" Disposable Needle Tip (For Pageris Only)

6510.07 Plastic Syringe Body (For Pageris Only)

One month use

6510.038 Pur Shooter Foam Gun — One Month Use

6510.306 Sharpshooter X — One Month Use

One time use — one job, one day

6510.303 Sharpshooter D — One Time Use

Extra Long Barrel

6510.305 Foam Gun with 28" Barrel

6510.309 Foam Gun with 39" Barrel

Pageris

Sharpshooter D

PUR-Shooter

Long Barrel

Sharpshooter X

Tip: Put an electrical nut filled with petroleum jelly on the tip of your foam gun in between uses. This will protect the tip from damage and keep it sealed from moisture penetration.

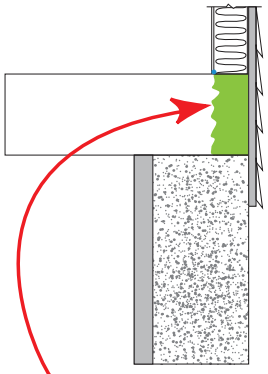
High Expansion Foam Information

E F I

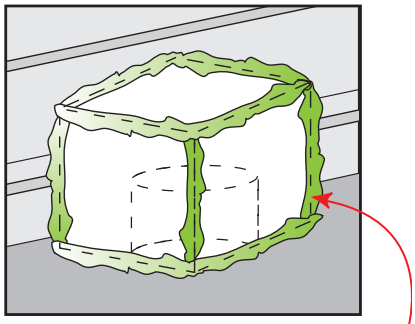
Using High Expansion Foam

High expansion foam should be thought of as an Air Sealing product that can be used to block air leaks in buildings from inside to outside, from outside to inside, and from room to room within the structure.

Typically used for bigger voids and openings, high expansion foam is a quick and economical way to help make buildings more comfortable and energy efficient.



High expansion foam used along rim joist



High expansion foam around boxes over leaky recessed lights

Uses and Information

- Use for
  - big voids
  - roof/wall joints
  - under crawl spaces
  - under hot tubs and Jacuzzis
  - around boxes over can lights
  - rim joists
  - big gaps in framing
  - blind corners
  - wall/ceiling intersections
- Two components — A and B in separate canisters
- A tank is red, B is white
- 1.75 lb density
- Sprays out with the consistency of oatmeal
- Cures through a chemical reaction. Can't stop the process once it starts.
- Cures to 3–5 times its output size. 40 seconds to 90% cure, 2 minutes to full cure
- Used with a gun and double hose assembly
- Components first meet in the nozzle of the gun. Nozzles are replaceable.
- With larger kits, hoses can be transferred to subsequent kits up to 5 times
- Kit should be used within 2 weeks once started

Important Information when using 2-part foam in cold weather

Temperatures of A & B canisters must be brought to 70–80°F prior to application. The higher the better. Canisters that were stored in low temperatures may require more than 24–48 hours to warm the contents.

Keep the tanks inside until you are ready to use them, and if you have product left over in the tanks that you intend to use later, put them back in warm storage.

If you are on a cold job site using this product, keeping it wrapped in old blankets and cardboard boxes will help maintain the temperature. We have had customers actually use the 2-part foam itself to make an insulated sleeve for the tanks that they use during the day on job sites.

Please call us for further details and a more complete flier on cold weather usage.

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High Expansion Foam

ENERGY FEDERATION INCORPORATED

600 Board Foot Kit
50 Cubic Feet

U2 — 600 A & B Tanks
- Each tank weighs 60 lbs (Kit = 120 lbs)
- FR = Fire Retardant Formula, Class 1, ASTM E-84
- Gun/hose assembly not included

3530.406 600 A & B Tanks
3530.407 600 A & B Tanks — FR

Gun Hose Assembly

6510.312 30' Gun/Hose Assembly for 600 tanks.

6510.301 Yellow Fan Spray Nozzle (Bag Quantity: 25)
6510.302 Clear Cone Spray Nozzle (Bag Quantity: 25)

Air Leakage Detector

- Used to detect leaks in buildings
- Uses titanium tetrachloride
- Good for over 1,000 puffs or l year, once activated

3570.10 Retrotec Smoke Puffer Pencil

200 Board Foot Kit
16.6 Cubic Feet

200 Board Foot Kit

200 Board Foot Kit — 16.6 Cubic Feet
- Kit weighs 39 lbs
- Includes 10' gun/hose assembly with nozzles
- FR = Fire Retardant Formula, Class 1, ASTM E-84

3530.405 200 Kit
3530.404 200 Kit — FR

15 Board Foot Kit

15 Board Foot Kit — 1.25 Cubic Feet
- Kit weighs 3 lbs
- One time use

3530.19 15 Kit with hose and thumb nozzle

Disposable Coverall

- Suits are packaged 25 per case
- Durable, breathable material

6020.09 Disposable Coverall — M
6020.1 Disposable Coverall — L
6020.11 Disposable Coverall — XL
6020.111 Disposable Coverall — XXL
6020.13 Disposable Booties — 5 pair
6020.02 White Cotton Gloves — 12 Pair

NOTE: 10 & 16 lb tanks and 200 and 600 kits shipped via UPS require a $20.00 Haz-Mat charge per unit.

High Expansion Foam Dispensing System

ENERGY FEDERATION INCORPORATED

CONSTANT PRESSURE DISPENSING SYSTEM

The CPDS 1000, Constant Pressure Dispensing System uses an air compressor to deliver the A and B components through the gun/hose assembly resulting in a better flow and more consistency. Constant pressure gives the user even and complete dispensing of foam.

Up to 120' of hose can be attached to the CPDS 1000. This allows the user to work in a wide range without having to move a set of tanks over and over. No need to carry tanks up into attics or under crawl spaces. Simply locate the CPDS 1000 in a central place.

The foam for this system is a Fire Retardant Formulae, Class 1, ASTM E-84.

3530.414	CPDS 1000 System Includes 30' of Hose, 2 Guns & 50 Nozzles
3530.415	750 FR A & B tanks 750 board feet or 62.5 cubic feet R-value = 7 per inch, 90% closed cell 16 sets per pallet
3530.421	30' Hose Set
3530.417	Extra Gun with 12" Hose
6510.301	Yellow Fan Spray Nozzle (Bag Quantity: 25)
6510.302	Clear Cone Spray Nozzle (Bag Quantity: 25)

Information

- Save time — no need to keep moving tanks around
- Save your back — tanks and compressor are on wheels
- Save material — more complete and consistent product use

The CPDS 1000 Systems comes with the following:

– Compressor
– 30' of hose
– 2 spray guns with 50 nozzles
– Tool box with wrenches
– Cleaner
– Instructions with a demo DVD

Purchase extra 30' hose sets and foam separately. Use up to 120' of hose on the system.

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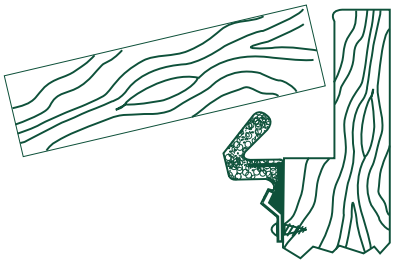
Weatherization Materials

ENERGY FEDERATION INCORPORATED

DOOR WEATHER-STRIPPING



- Q-lon vinyl faced foam mounted on painted aluminum, painted wood or vinyl carrier
- Q-lon maintains flexibility to –4°F
- Seals up to 1" gaps, compensating for door bowing or warping
- Two 6'8" side stops, one 3' header piece

Q-lon Weather-Stripping Kits

3540.13 Q-lon with Aluminum Carrier — White
3540.12 Q-lon with Aluminum Carrier — Brown

3540.18 Q-lon with Wood Carrier — White
3540.19 Q-lon with Wood Carrier — Brown

3540.401 Q-lon with Vinyl Carrier — White
3540.402 Q-lon with Vinyl Carrier — Brown

Loose Q-lon Strips

3540.17 Q-Lon 86" Loose Strip — White
3540.16 Q-Lon 86" Loose Strip — Brown

3540.21 Q-Lon C-fold Loose Strip — White
3540.20 Q-Lon C-fold Loose Strip — Brown

Spring Loaded Door Sweeps

- Spring loaded, turns up when door is opened to clear carpets
- Seals up to 1/2" between threshold and bottom

3550.13 Automatic Pop-up Sweep Single Flange — 36" White
3550.12 Automatic Pop-up Sweep Single Flange — 36" Brown

Triple Flange Door Sweeps

- Seals up to 1/2" between threshold and bottom

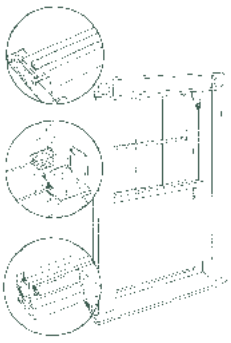
3550.01 Aluminum and Vinyl Triple Flange — 36"

Heavy Duty Door Sweeps

- Seals up to 3/4" between threshold and bottom

3550.1 Heavy Duty Aluminum/Vinyl Double Flange — 36"
3550.11 Heavy Duty Aluminum/Vinyl Double Flange — 48"

WINDOW WEATHER-STRIPPING



- Pre-formed V-Seal weather-stripping with adhesive backing is used to block air leakage around double hung windows
- Use wide on bottom sill, top of window and sash sides
- Use narrow on meeting rails

V-Seal Window Weather-Stripping

3560.022 Schlegel 512AB Wide White — 1.25' x 7'

3560.041 Polyflex Wide Clear — 1.25' x 7'
3560.07 Polyflex Narrow Clear — .375' x 7'

Pulley Seals

- Includes gasket and screws for secure fit
- Reduces infiltration by covering pulley weight holes

3560.021 Bag of 25 Pair — White

Sash Locks

- Brass construction
- Tightens double hung windows reducing infiltration

6520.02 Ives Clamshell Sash Lock — 125 per box
6520.04 Ives Side Fastener Lock — 25 per box

Air Sealing Supplies

ENERGY FEDERATION INCORPORATED

TU-TUF VAPOR BARRIER

White

Translucent

- White cross-laminated virgin poly sheeting; made from high-density resins
- Use on warm side of outside walls; under concrete flooring; around outside perimeter of foundations
- 6.4x more puncture resistant than low-density 4-mil poly

Vapor Permeance: 0.00741
Water Resistance: 100 dry indicator/hour
Tensile Strength: 8,507 psi, 34 lbs per inch width
Puncture Resistance: 275.8 beach units

5520.211 9' x 100' #4 White
5520.23 12' x 100' #4 White
5520.210 9' x 100' XF Translucent
5520.230 12' x 100' XF Translucent

VAPOR BARRIER SEALING PRODUCTS

6800.021 Venture Construction Tape 2" x 216'
3500.4 Tremco Seam Sealant (quart)
6500.03 Deluxe Caulk Gun (quart)

FIRE BREAK CAULK

Fire Break Caulk is a non-combustible filler compound used for fire stopping applications around pipes, ducts, vents, electrical wiring, masonry and other penetrations in the building envelope.

3500.65 Fire Break ASTM E-136, Residential, Non Expanding, 4 hour rating
3500.66 Fire Break ASTM E-814, Commercial, Intumescent, 8 hour rating

DUCT SEALING SUPPLIES

Mastic
RCD #6 is a cream colored non-toxic adhesive sealant used to seal joints and seams of low to high velocity air ducts.

- Water based, fiber reinforced
- Elastomeric

3520.02 RCD #6 Mastic 2 Gallon Bucket
3520.04 RCD #6 Mastic 1 Gallon Bucket
3520.03 RCD #6 Mastic 11 oz Tube
3520.05 RCD #7 Mastic — 1 Gallon Bucket Grey
6800.061 Mesh Tape 3" x 150'

Butyl Foil Tape
- UL 181 B-FX Listed
- Meets all SMACNA pressure and sealing classes
- Backing: 2 mil soft alum, Adhesive: 15 mil butyl

6800.301 Duct Sealant Butyl-Foil Tape 3"x100'

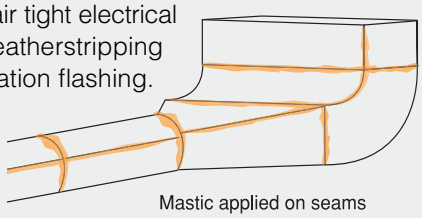
Duct Sealing Tips

It has long been known that a well installed and sealed duct system increases equipment efficiency, health, safety and comfort for the homeowner. By properly installing and then sealing ducts, the contractor can diminish the possibility of moisture and mold problems, the potential for back drafting appliances, and the potential of introducing pollutants to the living environment.

Tips on Using Mastic

- Seal all seams and joints by brushing on
- Use mastic along with mesh tape to bridge the gap and strengthen the seal
- Water based — easy to apply and clean up
- Remains flexible over time as ducts expand & contract

Other Air Sealing products that EFI carries include vapor barriers that get installed with high adhesion tape and acoustical sealant, air tight electrical boxes, caulking, weatherstripping and exterior penetration flashing. Call the Wholesale Division for further information and guidance.



Mastic applied on seams and gaps on duct work

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Air Sealing Supplies

ENERGY FEDERATION INCORPORATED

AIR-TITE COVER PLATES

- Heavy plastic plates in White or Ivory (Leviton)
- Gasket pre-installed — no cutting
- Outlets have a snap in plastic plate for sealing when not in use
- Fits standard wall switches and 3-prong plugs
- Screws included

3530.381 Airtite Plate Outlet — White
3530.371 Airtite Plate Outlet — Ivory

3530.382 Airtite Plate Switch — White
3530.372 Airtite Plate Switch — Ivory

3530.384 Airtite Plate Double Outlet — White
3530.374 Airtite Plate Double Outlet — Ivory

3530.385 Airtite Plate Double Switch — White
3530.375 Airtite Plate Double Switch — Ivory

3530.388 Airtite Plate Triple Switch — White
3530.378 Airtite Plate Triple Switch — Ivory

3530.389 Airtite Plate Quad Switch — White
3530.379 Airtite Plate Quad Switch — Ivory

3530.383 Airtite Plate Switch/Outlet — White
3530.373 Airtite Plate Switch/Outlet — Ivory

3530.386 Airtite Plate Telephone — White
3530.376 Airtite Plate Telephone — Ivory

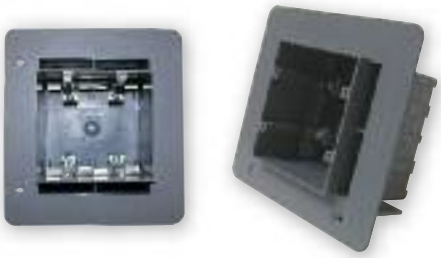
3530.387 Airtite Plate Cable — White
3530.377 Airtite Plate Cable — Ivory

LESSCO AIR AND VAPOR TIGHT ELECTRICAL BOXES

- Use behind standard electrical boxes
- Fits up to a 3-gang box
- Sturdy flange for air/vapor barrier attachment

5700.01 LESSCO Box — 60/case

AIRFOIL AIR AND VAPOR TIGHT ELECTRICAL BOXES



- Solid one piece construction
- Eliminates air and moisture movement through electrical openings
- Provides visible airtight seal — easily installed and inspected

5700.17	Airfoil Single Gang Box	40/case
5700.171	Airfoil Two Gang Box	24/case
5700.172	Airfoil Round Outlet Box	36/case
5700.173	Airfoil Fan Box Round	15/case

CAULKS — 11 OZ CARTRIDGES

- Flexible, waterproof; temperature range –65°F to 400°F
- 100% Silicone is not paintable
- Indoor/outdoor use

3500.11 Boss 100% Silicone White
3500.1 Boss 100% Silicone Clear

- SAL = Siliconized Acrylic Latex
- Paintable, indoor/outdoor use
- Rated 35 Years

3500.01 Boss Max1000 SAL White
3500.03 Boss Max3500 SAL Clear

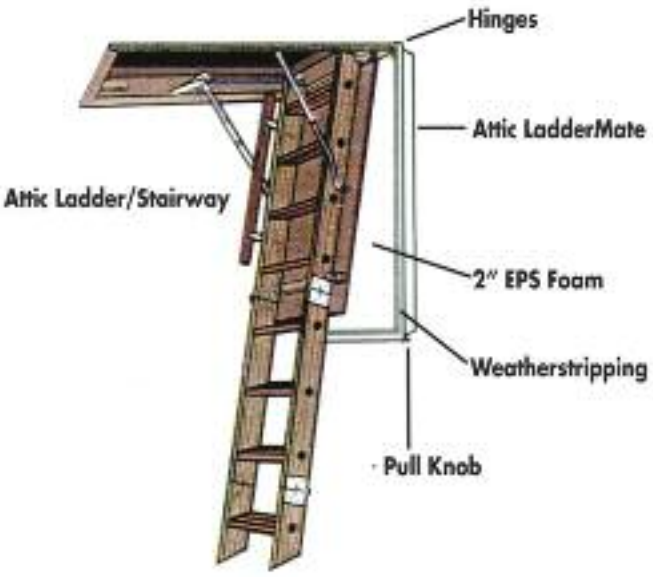
Caulk Gun
- Heavy duty parallel frame

6500.02 Deluxe Caulk Gun (cartridge)

Attic Stair Covers

ENERGY FEDERATION INCORPORATED

LADDERMATE AND ACCESSMATE



- Seals and insulates the access openings
- Installs on the finish side
- R-10 insulation — 2" EPS Foam
- Hinged on one end for easy opening and closing
- LadderMate fits Max opening of 25" x 54"
- AccessMate fits Max opening of 24" x 30"

3570.35	LadderMate ALM-3060	30" x 60" x 2.50"
3570.38	Access Mate AM-2935	29" x 35" x 2.25"

THERMA-DOME

- Insulation cover for folding attic stairways
- Constructed of a durable, laminated foil urethane insulation
- Foam gaskets and tie-downs provide continuous draft seal
- R-Value = 13.6, 1.5" Rigid Foam
- Inside dimensions 27" W x 57" L x 10.5" H

3570.01 Attic Stair Cover

Attic Tent™

- Lightweight, easy to install
- Fully assembled, installs in 15 minutes
- Installs using a staple gun and caulking or tape
- Zipper allows safe and easy access
- Creates air barrier with 3.2 R-value
- 4 sizes available

3570.3	AT-1	22" x 54" x 7"
3570.31	AT-2	25" x 54" x 7"
3570.32	AT-3	22" x 54" x 13"
3570.33	AT-4	25" x 54" x 13"

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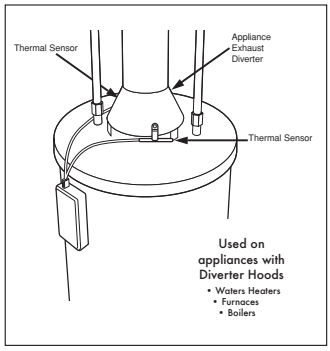
Spill Alarm and Power Pipe

ENERGY FEDERATION INCORPORATED

VENT RITE SPILL ALARM

When and where should this alarm be installed and used?

This Vent-Rite Spill Alarm should be installed on any natural drafting appliance that fails a combustion safety test, or on one that is remaining in the home after energy improvements have been completed. These appliances may be susceptible to spillage especially when changes are made to the building.

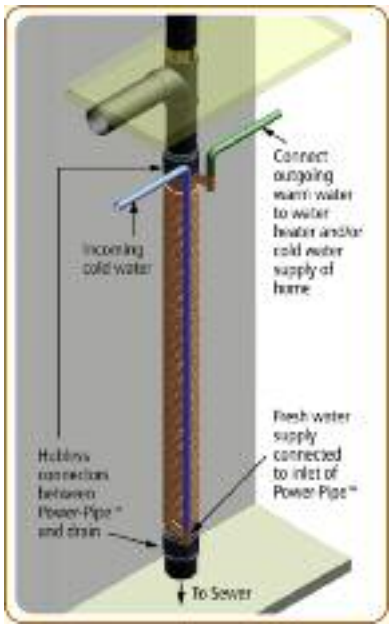


All natural drafting combustion appliances are susceptible to back-drafting or "spillage" of flue gases. This alarm provides an audible alert when a natural drafting combustion appliance begins to spill combustion air back into the home.

- Used primarily with gas or propane fired water heaters and boilers
- Installs at the appliance
- Has 2 temperature sensors that get attached to the appliance hood
- The alarm will alert residents to take action to correct a potential problem
- Battery operated, can be re-set easily
- This device measures temperature only — does not measure pollutants

5020.01 Vent-Rite Spill Alarm

POWER-PIPE DRAIN WATER HEAT RECOVERY


Connect outgoing warm water to water heater and/or cold water supply of home
Incoming cold water
Fresh water supply connected to inlet of Power Pipe™
To Sewer

- Coil – Type "L" Copper, with .035" Wall
- Inner core has a .045" wall
- Reduce water heating cost by recovering the heat from drain water
- Easy to install — maintenance free
- Includes couplings for attachment to existing drain pipe

7100.201 Power-Pipe R2-60 2" pipe x 60"
7100.202 Power-Pipe R3-36 3" pipe x 36"
7100.203 Power-Pipe R3-48 3" pipe x 48"
7100.204 Power-Pipe R3-60 3" pipe x 60"
7100.205 Power-Pipe R4-48 4" pipe x 48"

BLUE LINE POWERCOST MONITOR™

The Blue Line PowerCost Monitor ™ is a powerful in-home measurement and reporting unit that provides real-time feedback on electricity use. By providing information about where and when electricity is being consumed, this monitor helps people understand how they are using electricity.

Without any interference with the meter, the outdoor sensor unit can be installed easily without an electrician. A hand held, portable display shows electricity usage in both cost and kilowatt hours in real time. The user can see what happens when turning a device on or off and can learn what the implications are for leakage rates or stand by power consumption.

- Easy installation, battery operated
- Real time information
- Understand your electrical consumption

5020.41 Blue Line Powercost Monitor

ELECTRICITY USAGE MONITORS

E.E.D. Watts Up? Monitors
Plug the Watts Up? Monitor into a three-prong grounded electric outlet. Plug the device to be evaluated into the top of the monitor. The Watts Up? monitor will measure electrical usage over time at your local rate.

The Watts Up? Monitor will provide the following information:

- Current watts, minimum watts, and maximum watts
- Power factor
- Cumulative and average watt hours
- Cumulative and average cost
- Line volts, minimum volts, and maximum volts
- Current amps, minimum amps, and maximum amps

The Watts Up? PRO downloads data to a PC, includes software for graphing, has a payback calculator and stores power profiles of multiple devices. Includes a USB cable and software.

5020.404 E.E.D. Watts Up? Monitor
5020.403 E.E.D. Watts Up? Pro Monitor

Kill-A-Watt Monitor
- Simple electricity measuring device
- Use on various items to get reading on wattage, voltage and amperage

5020.402 Kill A Watt Monitor P4400

Product comparison

	Kill-A-Watt	Watts Up?	Watts Up? Pro
Plug	Direct	Corded	Corded
Accuracy	+/–0.2%	+/–3.0%	+/–3.0%
PC Interface	No	No	Yes
Cumulative Watt Hours	Yes	Yes	Yes
Monthly Watt Hours	No	Yes	Yes
Minimum Watts	No	Yes	Yes
Watts	Yes	Yes	Yes
Maximum Watts	No	Yes	Yes
Minimum Volts	No	Yes	Yes
Volts	Yes	Yes	Yes
Maximum Volts	No	Yes	Yes
Minimum Amps	No	Yes	Yes
Amps	Yes	Yes	Yes
Maximum Amps	No	Yes	Yes
Power Factor	Yes	Yes	Yes
Cumulative Cost	No	Yes	Yes
Monthly Cost	No	Yes	Yes
Elapsed Time	No	Yes	Yes

Testing Equipment

ENERGY FEDERATION INCORPORATED

FYRITE™ INSIGHT COMBUSTION ANALYZER

- Residential use
- In-field calibration and sensor replacement
- Little or no down time
- Measures the following
  - – Combustion and Efficiency
  - – Room Air CO
  - – Flue Gas CO
  - – Dual Channel Digital Temperature Reading (up to 999°F)
  - – Digital Manometer — pressure readings
- Includes probe, carrying case and protective rubber boot

5200.017 Fyrite Insight 24-8250
5200.018 Fyrite Insight 24-8251 — with Printer

HUMIDITY-TEMPERATURE METER

- Humidity: 10% RH–95% RH
- Temperature: –4°F to 140°F
- Wet bulb and dew point temp readings
- Data-hold and relative function
- Dual LCD display with bar graph indication
- Includes soft carrying case and batteries

5200.11 Bacharach Humidity-Temperature Meter TH1800

MONOXOR™ III CARBON MONOXIDE ANALYZER

- Analyze ambient air and stack gases
- Battery powered (4 AA), hand held
- Measure levels between 0 and 2,000 ppm
- Includes probe and 5' of tubing
- Accuracy = +/–5% of reading

5200.05 Bacharach Monoxor™ III

INFRARED THERMOMETER

- Laser pointer
- –4°F to 750°F (approx)
- Min-Max hold function
- Backlit LCD display
- Includes soft carrying case

5200.08 Bacharach Infrared Thermometer TH8000

DUAL CHANNEL THERMOMETER

- –50°F to 2000°F (approx)
- 2 K-type 39" thermocouples
- T1–T2 differential measurements
- Min-Max hold function
- Flip up stand
- Includes protective boot and battery

5200.09 Bacharach Dual Channel Thermometer TH3000

*NOTE: EFI has access to all Bacharach Testing Equipment. Please call if you have questions or inquiries about other products you are interested in.

TEMPERATURE AND RELATIVE HUMIDTY DISPLAYS

Stand alone unit that can be wall mounted or used as a table display. Move it around the house for different readings.

- Temp range: –58°F to 158°F
- Relative Humidity range –5% to 95%
- Celsius and Fahrenheit settings
- Retains low and high reading in memory
- Runs on one AAA battery, included

5000.6 Indoor Temperature — Relative Humidity Display

Economical, accurate indoor/outdoor thermometer. Stand alone unit that can be wall mounted or used as a table display.

- Temp range: –58°F to 158°F
- Celsius and Fahrenheit settings
- Retains low and high reading in memory
- Outdoor sensor at the end of a 10' wire
- Runs on one AAA battery — included

5000.61 Indoor/Outdoor Thermometer

Carbon Monoxide Detectors

ENERGY FEDERATION INCORPORATED

CARBON MONOXIDE ALARMS HARD WIRED — NEW CONSTRUCTION

- Digital display — continuous monitoring
- Interconnect with up to 24 units
- Sealed cover protects sensor during construction
- Battery backup
- 85 db alarm

5020.255 Kidde CO Alarm AC-900-0121

CARBON MONOXIDE ALARMS PLUG-IN

- Direct plug in with battery back up
- Digital display
- Test and reset button
- Peak level memory
- 85 db alarm

5020.993 Kidde Nighthawk 900-0076-01

- Electro-Chemical CO Sensor
- Direct plug in with battery back up
- LED indicators for normal and alarm mode
- Test/Reset Button
- 85 db alarm
- UL listed 2034

5020.279 Kidde CO Alarm Model 900-0193

CARBON MONOXIDE ALARMS BATTERY OPERATED

- Digital readout
- Test and reset button
- Peak level memory
- 85 db alarm

5020.201 Kidde Model 900-0146-04

- Electro-Chemical CO Sensor
- LED indicators for normal and alarm mode
- Test/Reset Button
- 85 db alarm
- UL listed 2034

5020.991 Kidde CO Alarm Model 9C05

COMBINATION CO AND SMOKE ALARM

Hard Wire — New Construction

- Hard Wire 120 VAC Unit
- Ionization sensor for smoke
- Battery backup in case of power failure
- Interconnectable with up to 24 units
- LED indicator lights
- Voice alarm states
  "Fire! Fire!" accompanied by 85 db alarm
  "Warning: Carbon Monoxide" accompanied by 85 db alarm
  "Low Battery"

5020.995 Kidde Model 900-0114-02

Battery Operated

- Ionization sensor for smoke
- Test and reset button
- LED indicator lights
- Voice alarm states
  "Fire! Fire!" accompanied by 85 db alarm
  "Warning: Carbon Monoxide" accompanied by 85 db alarm
  "Low Battery"

5020.994 Kidde Model 900-0102

STROBE LIGHT FOR HEARING IMPAIRED

- Use with all Kidde CO and Smoke/Fire Alarms
- Provides a visual signal
- Meets UL 1971, NEMA and ADA standards
- Bright 177 Candela Strobe

5020.31 Kidde Strobe Model SL177i

National distributor shipping direct throughout the United States
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Smoke and Fire Detectors

ENERGY FEDERATION INCORPORATED

Information:

There are two types of sensors available — Photoelectric and Ionization. Photoelectric Sensors detect smoldering, slow moving fires while Ionization Sensors detect fast moving fires with flames. Smoke Detectors that have both sensors are always a good choice to ensure maximum safety. Installers should check with local code officials to make sure you are in compliance with local regulations.

HARD WIRED SMOKE DETECTORS NEW CONSTRUCTION

- Ionization Sensor
- Extremely Low Profile — 0.5"
- Fits into standard junction box
- Pre-stripped Hard Wire Harness
- Self Charging Battery back-up — no replacement necessary
- One button for Test and Hush
- Interconnect with up to 24 units
- 85 db alarm

5020.283 Kidde Silhouette Hard Wire Smoke Alarm KN-SMFM-i

- Ionization and photoelectric sensors
- Interconnect with up to 24 units
- Battery backup
- LED power indicator light
- Hush feature and test/reset button
- 85 db alarm

5020.291 Kidde Dual Sensor Smoke Alarm 21006934

- Photoelectric sensor
- Interconnect with up to 24 units
- Battery backup
- LED power indicator light
- Test and hush buttons
- 85 db alarm

5020.274 Kidde Photoelectric Smoke Alarm PE120

- Ionization sensor
- Interconnect with up to 24 units
- Battery backup
- LED power indicator light
- Test and hush buttons
- 85 db alarm

5020.276 Kidde Ionization Smoke Alarm 12040

WIRELESS SMOKE DETECTOR

- Ionization Sensor
- Battery Powered
- Interconnects with up to 24 units
- When one sounds they all sound
- LED indicates stand-by and alarm condition
- Test and Hush Button
- 85 db alarm

5020.32 Kidde Wireless Smoke Alarm Model 0919

BATTERY OPERATED SMOKE DETECTORS

- 10 Year lithium battery — sealed
- Great for multi family, rentals, colleges and public buildings
- Ionization sensor
- Hush button and test button
- LED power indicator lights
- Tamper resistant
- 85 db alarm

5020.272 Kidde Sealed Alarm 900-0136

- Ionization and photoelectric sensors
- Detects both fast burning and slow smoldering fires
- Hush, test and reset button
- 85 db alarm

5020.29 Kidde Dual Smoke and Fire Alarm Model 442-007-02

- Ionization sensor
- Hush button
- Test button
- Low battery indicator
- 85 db alarm

5020.27 Kidde Smoke and Fire Alarm 0914E

- Ionization Sensor
- Test Button
- Low battery indicator
- 85 db alarm

5020.271 Kidde Smoke and Fire Alarm 0915E

HEATING AND COOLING ELECTRONIC THERMOSTAT

Programmable
- Use for heating only or heating/cooling
- 5–2 day programming, 4 settings per day
- Operates in automatic, manual, or vacation modes
- Battery operated with low battery indicator, holds program when changing batteries
- Wall plate accepts 2, 3, 4, or 5 wires
- Dimensions: 4.8" x 3.25" x 1.125"

5000.1 Lux PSP511C

LINE VOLTAGE THERMOSTATS FOR ELECTRIC BASEBOARD AND CONVECTORS

Programmable — 2 wire
- 4,000w @ 240 volts; 2,000w @ 120 volts 16.7 Amp resistive
- 2 wires, SPST
- 7 Day Independent Programming, 4 settings per day
- Operate in automatic, manual or vacation modes
- No battery — protected memory
- Dimensions: 4.9" x 5" x 1.5"
- Available for 277v systems-special order

5000.512 Aube TH-106

Programmable — 4 wire
- 3,600w @ 240 volts. 15 Amp resistive load
- 4 wires, DPST
- 7 day independent programming, 4 settings per day
- Operate in automatic, manual, or vacation modes
- No battery — protected memory
- Dimensions: 4.8" x 2.7" x 1.0"

5000.621 Aube TH-115-A-240D

LOW VOLTAGE THERMOSTATS FOR FORCED AIR, HOT WATER AND AIR CONDITIONING

Programmable
- Use for heating only or heating/cooling
- Auto change over
- 7 day independent programming, 4 settings per day
- Operate in automatic, manual, or vacation modes
- Battery operated with low battery indicator keeps program for 30 seconds when changing batteries
- Wall plate accepts 2, 3, 4 or 5 wires
- Dimensions: 3.8" x 4.9" x 1"

5000.59 Aube TH-141-HC-28

Non-Programmable
- Use for heating only — 2 wire
- Digital display — extremely accurate
- Replaces standard dial thermostat
- Rated 1.5 amps @ 30 volts
- Manual thermostat, plug in a day setting and a night setting
- Push button to turn up in the morning, down at night
- Battery operated with low battery indicator

5000.501 Aube TH-135-01

Compact Fluorescent Lighting

Energy Federation offers a wide selection of energy efficient lighting products — the latest technologies in compact fluorescent lights (CFLs). CFLs are designed to produce a high-quality, incandescent-like warm light and use about 70% less electricity than conventional incandescent lights.

Most good quality CFLs are rated to last between 6,000 and 10,000 hours. This usually translates to a 2–4 year lifetime depending on usage. (One year is 8,760 hours.)

Not all dimming switches are compatible with dimming CFLs. There are times when flickering and/or buzzing may occur with certain switch and lamp combinations. We suggest that you buy a small quantity of dimming CFLs and try them in your application before re-lamping a large area.

Unless specified, CFLs are not rated for use in outdoor fixtures. If used outdoors they should be in an enclosed fixture protected from the elements. Enclosed post lights and porch ceiling fixtures are good places to install CFLs.

In terms of light output, typical incandescent equivalents are as follows:

CFL WATTAGE	APPROXIMATE INCANDESCENT EQUIVALENT	LUMENS/OUTPUT
11w	40w	~600
13w	50–60w	~750
15w	60w	~900
20w	75w	~1,200
23w	90w	~1,400
26w	100w	~1,700
38w	150w	~2,700
55w	250w	~3,900
70w	300w	~4,600

Definitions of Terms

Average Rated Lifetime
The median time it takes for a lamp to burn out. Based upon continuous testing of lamps in laboratories, the hour rating is the point in time when 50% of the test samples have burned out and 50% are still functioning.

Ballast
The part of the lamp assembly designed to start and control the flow of power to the fluorescent lamp.

Color Rendering Index (CRI)
An international system used to rate a lamp's ability to show an object's color. The higher the CRI, based on a scale of 0–100, the truer colors will appear. Any CRI above 80 is considered very good. Natural sunlight has a CRI of 100.

Color Temperature
A measure used to describe the "whiteness" of a light source. The higher the color temperature, the cooler or whiter the light will be. Residential incandescent bulbs are usually around 2,800° Kelvin, which is "warm" light. Office lighting is usually over 4,000° Kelvin, which is "cool" light. Most Compact Fluorescents fall in the 2,700° to 3,000° range.

Lumen
A measure of the amount of light given off by a light source. A typical 60w incandescent gives off 840 lumens, a 100w incandescent gives off 1,750 lumens. Check manufacturer's specs. Lumen output and wattage equivalents vary slightly from brand to brand.

Compact Fluorescent Spirals

ENERGY FEDERATION INCORPORATED

SPIRALS

Low Mercury

Earthmate Low Mercury Super Mini T2 Spirals
• Less than 2 milligrams of mercury

Average Rated Lifetime: 10,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: 0°F
Case Quantity: 50

		Lumens	*Dim*
1100.322	13w	825	1.5" x 3.90"
1100.323	15w	1,005	1.5" x 4.09"
1100.324	20w	1,295	2.0" x 4.37"
1100.325	23w	1,660	2.0" x 4.76"

Lightwiz Mini Spirals
Average Rated Lifetime: 10,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: 0°F
Case Quantity: 50

		Lumens	*Dim*
1100.866	15w	1,050	1.6" x 4.7"

Lightwiz Spirals
Average Rated Lifetime:
10,000 hours (30w = 6,000 hours)
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: 0°F
20w and 25w Case Quantity: 50
30w Case Quantity: 30

		Lumens	*Dim*
1100.842	20w	1,400	2.5" x 4.7"
1100.859	25w	1,725	2.5" x 5.0"
1100.874	30w	2,050	2.6" x 5.4"

TCP Spirals
Average Rated Lifetime: 10,000 hours
Color Temperature: 2,700° Kelvin
CRI: 81
Minimum Starting Temperature: –20°F
Case Quantity: 48

		Lumens	*Dim*
1100.336	14w	900	1.75" x 4.40"
1100.337	19w	1,200	2.25" x 4.50"
1100.338	23w	1,600	2.50" x 4.75"
1100.339	23w	1,750	2.50" x 5.25"

Feit Mini-Spiral
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 81
Minimum Starting Temperature: –27°F
Case Quantity: 12

		Lumens	*Dim*
1100.941	13w	800	2.25" x 4.5"

GE Spirals
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: –5°F
Case Quantity: 10

		Lumens	*Dim*
1100.713	20w	1,200	2.3" x 4.7"
1100.714	26w	1,700	2.5" x 5.2"

Maxlite Spirals
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 84
Minimum Starting Temperature: 0°F
Case Quantity: 24

		Lumens	*Dim*
1100.84	11w	550	1.6" x 4.4"
1100.924	42w	2,600	2.8" x 6.2"

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Compact Fluorescent Spirals

ENERGY FEDERATION INCORPORATED

3-way and dimmable spiral CFLs

Earthmate 3-way Spiral
Average Rated Lifetime: 10,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: –20°F
Wattage: 12–22–33w
Case Quantity: 30

		Lumens	*Dim*
1100.333	33w 3-way	700 – 1,500 – 2,225	2.5" x 5.3"

Philips 3-way Double Spiral
Average Rated Lifetime: 10,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: –22°F
Wattage: 11–23–34w
Case Quantity: 6

		Lumens	*Dim*
1100.442	34w 3-way	700 – 1,500 – 2,200	2.3" x 7.0"

Feit 25w 3-way Spiral
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,650° Kelvin
CRI: 81
Minimum Starting Temperature: –27°F
Wattage: 13–20–25w
Case Quantity: 12

		Lumens	*Dim*
1100.944	25w 3-way	700 – 1,150 – 1,625	2.25" x 6.2"

Maxlite Dimmable Spiral
Average Rated Lifetime: 6,000 hours
Color Temperature: 2,700° Kelvin
CRI: 84
Minimum Starting Temperature: 0°F
Case Quantity: 12

		Lumens	*Dim*
1100.032	15w	900	2.2" x 5.0"
1100.933	25w	1,600	2.2" x 5.6"

Decorative bulbs

Compact Fluorescent — Case Quantity: 48

			Lumens	*Hours*	*Dim*
1100.758	9w	Candelabra	425	6,000	1.75" x 4.4"
1100.753	9w	Medium	425	8,000	1.60" x 4.8"
1100.754	14w	Medium	720	8,000	2.40" x 5.4"

Krypton (Clear Incandescent) — Case Quantity: 10

1100.705	15w	Candelabra	180	3,000	1.5" x 3.2"
1100.707	25w	Medium	300	3,000	1.5" x 3.9"

Compact Fluorescent Capsules and Globes

ENERGY FEDERATION INCORPORATED

"A" Style CFLs

MaxLite "A" Style
Average Rated Lifetime: 1100.909 — 15,000 hours
1100.910 — 8,000 hours
1100.927 — 10,000 hours
Color Temperature: 2,700° Kelvin
CRI: 84
Minimum Starting Temperature: 0°F
Case Quantity: 12

		Lumens	*Dim*
1100.909	13w	800	2.4" x 4.3"
1100.910	13w	800	2.4" x 4.3"
1100.927	20w	1,050	2.6" x 5.8"

TCP "A" Style
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 84
Minimum Starting Temperature: –20°F
Case Quantity: 24

		Lumens	*Dim*
1100.794	14w	800	2.4" x 4.8"

Cold Cathode "A" Style CFLs

- Long Life
- Dimmable
- Flashable

Litetronics Cold Cathode "A" Style
Average Rated Lifetime: 18,000 hours
Color Temperature: 2,850° Kelvin
CRI: 82
Minimum Starting Temperature: 0°F
Case Quantity: 12

		Lumens	*Dim*
1100.302	8w	305	2.4" x 4.9"

TCP Cold Cathode "A" Style
Average Rated Lifetime: 25,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: –20°F
Case Quantity: 48

		Lumens	*Dim*
1100.010	5w	200	2.25" x 4"

Globe Style CFLs

TCP Globes
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 84
Minimum Starting Temperature: –20° F
Case Quantity: 6

		Lumens	*Dim*
1100.755	9w	495	3.1" x 4.3"
1100.784	14w	800	3.1" x 4.7"
1100.767	19w	950	3.7" x 4.9"

Maxlite Globe
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,800° Kelvin
CRI: 84
Minimum Starting Temperature: 0°F
Case Quantity: 12

		Lumens	*Dim*
1100.905	14w	700	3.7" x 5.2"

Feit Globes
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 81
Minimum Starting Temperature: –27°F
Case Quantity: 12

		Lumens	*Dim*
1100.945	11w	550	3.15" x 4.25"
1100.242	15w	980	3.5" x 6.2"

Philips Outdoor Capsules
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Min. Starting Temp.: –10°F
Case Quantity: 6

		Lumens	*Dim*
1100.439	14w Amber	600	2.6" x 4.9"
1100.061	14w	720	2.6" x 5.5"

Compact Fluorescent Reflectors

ENERGY FEDERATION INCORPORATED

REFLECTORS

GE Dimmable Reflectors
Average Rated Lifetime: 6,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: 5°F
Case Quantity: 6

			Lumens	*Dim*
1160.607	15w	R-30	720	3.75" x 5.1"
1160.608	26w	R-40	1,300	5.0" x 6.9"

Sylvania Dimmable Reflectors
Average Rated Lifetime: 6,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: –22°F
Case Quantity: 6

			Lumens	*Dim*
1160.023	15w	R-30	600	3.7"x 5.7"

Neptune Dimmable R-20 Reflector
Average Rated Lifetime: 10,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: 0
Case Quantity: 12

			Lumens	*Dim*
1160.084	14w	R-20	530	5" x 2.5"

GE Genura
Average Rated Lifetime: = 15,000 hours
Color Temperature: 3,000° Kelvin
CRI: 82
Minimum Starting Temperature: –10°F
Case Quantity: 6

			Lumens	*Dim*
1160.606	23w	R-25	1,100	3.2" x 4.9"

GE Reflectors
Average Rated Lifetime: 10,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: 5°F
Case Quantity: 12

			Lumens	*Dim*
1160.611	15w	R-30	750	3.7" x 5.5"
1160.613	26w	R-40	1,300	5.0" x 6.5"

Litetronics Long Life, Dimmable Cold Cathode Reflector
Average Rated Lifetime: 18,000 hours
Color Temperature: 2,850° Kelvin
CRI: 82
Minimum Starting Temperature: 0°F
Case Quantity: 12

			Lumens	*Dim*
1100.307	8w	R-30	305	3.8" x 5.4"

Philips Reflectors
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: –22°F
Case Quantity: 6

			Lumens	*Dim*
1160.505	14w	R-20	500	4.6" x 2.5"
1160.471	15w	R-30	750	3.7" x 5.7"

Feit R-30 Reflector
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 81
Minimum Starting Temperature: –27°F
Case Quantity: 12

			Lumens	*Dim*
1160.07	15w	R-30	750	3.7" x 5.1"

Feit Par 38 Outdoor Reflector
Average Rated Lifetime: 6,000 hours
Color Temperature: 2,650° Kelvin
Minimum Starting Temperature: –27°F
Case Quantity: 12

			Lumens	*Dim*
1160.08	23w	R-38	1,300	4.7" x 5.8"

Maxlight R-40 Reflector
Average Rated Lifetime: 8,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: 0
Case Quantity: 12

			Lumens	*Dim*
1160.31	23w	R-40	1300	6.25" x 5"

Compact Fluorescent Recessed Lights

ENERGY FEDERATION INCORPORATED

TCP DIMMABLE RETROFIT RECESSED CAN KIT

Kit comes complete with ballast and screw-in adapter for medium base sockets, replaceable 20w bulb and installation hardware. Fits all 6" cans. 90w incandescent equivalent.

1440.405 20w Universal 7.25" Dia. x 6.5" L
1440.406 20w Juno/Halo 7.25" Dia. x 6.5" L

1000.105 20w Fluorescent 4-pin Replacement Lamp

TCP DIMMABLE NEW CONSTRUCTION RECESSED CAN KIT

TIP: We recommend using this kit in installations that allow access to the back of the unit — such as attics — in case someone needs to service the ballast in the future. Do not use this can between floors.

For new construction. Kit comes complete with a pre-wired junction box, adjustable bar hangers, detachable, vertically mounted bulb socket and 20w replaceable bulb. Dimmable. 90w incandescent equivalent.

1440.407 20w Dimmable 7.25" Dia. x 6.5" L

1000.105 20w Fluorescent 4-pin Replacement Lamp

FLUORESCENT RECESSED CANS

TIP: Order a 13w housing and 13w lamp, or a 26w housing and 26w lamp. Then select 1 of 3 trim styles — clear lens, open white smooth or open white baffle.

Housings (includes lamp)
- Airtight and IC rated
- Use for new construction or remodeling
- 6" cans with adjustable hanging bars
- Adjust vertically for ceiling thickness
- 13w unit equivalent to 60w incandescent
- 26w unit equivalent to 90w incandescent

1440.712 Airtight IC Rating Housing 13w
1000.001 13w 4-pin Lamp

1440.711 Airtight IC Rating Housing 26w
1000.022 26w 4-pin Lamp

Clear Lens Trim Ring

Open Trim Ring

Baffle Trim

Trim Rings for Airtight Cans
- Lens unit softens the light — wet location listed
- Open reflector — maximum illumination (kitchens)
- Baffle — reduces glare and light spread

1440.713 Clear lens with white trim ring
1440.715 Open white reflector with white trim ring
1440.714 Open white baffled reflector with white trim ring

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Compact Fluorescent Replacement Lamps

ENERGY FEDERATION INCORPORATED

REPLACEMENT LAMPS FOR FIXTURES

2 Pin-Quad

2 Pin-Twin

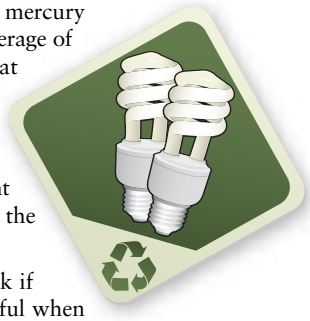
4 Pin-Quad

4 Pin-Spiral

GU-24 Spiral

			BASE	LUMENS	K
2 Pin-Quad					
1000.21	9w	Sylvania	G23-2	525	2,700
1000.007	13w	Philips	GX23-2	760	2,700
1000.234	13w	Philips	GX24d-1	900	2,700
1000.3	18w	Philips	GX24d-2	1,200	2,700
1000.24	22w	Philips	GX32d-2	1,200	2,700
1000.25	28w	Philips	GX32d-3	1,600	2,700
2 Pin-Twin					
1000.016	9w	GE	G23	600	2,700
1000.08	13w	GE	GX23	900	2,700
1000.04	13w	Philips	GX23	825	2,700
4 Pin-Quad					
1000.233	13w	Philips	G24q-1	900	2,700
1000.30	18w	Philips	G24q-2	1,200	3,500
1000.299	18w	Philips	G24q-2	1,250	2,700
1000.374	18w	Maxlite	G24q-2	1,200	2,700
1000.31	26w	Philips	G24q-3	1,800	2,700
4 Pin-Spiral					
1000.022	26w	TCP	G24q-3	1,750	2,700
GU-24 Spiral					
1000.405	13w	Maxlite	GU-24	950	2,700
1000.406	18w	Maxlite	GU-24	1,350	2,700
1000.407	26w	Maxlite	GU-24	1,900	2,700

CFL Disposal Information:



CFLs contain a very small amount of mercury sealed within the glass tubing — an average of 5 milligrams — about the amount that would cover the tip of a ballpoint pen.

Mercury currently is an essential component of CFLs and is what allows the bulb to be an efficient light source. No mercury is released when the bulbs are intact or in use.

CFLs are made of glass and can break if dropped or roughly handled. Be careful when removing the bulb from its packaging, installing it or replacing it. Always screw and unscrew the lamp by its base (not the glass), and never forcefully twist the CFL into a light socket.

The U.S. Environmental Protection Agency (EPA) recommends that consumers take advantage of available local recycling options for compact fluorescent light bulbs. For more information, please contact your local municipal solid waste agency directly, or go to www.epa.gov/bulbrecycling or www.earth911.org for local recycling options.

The new Earthmate T-2 spirals offered on page 34 contain less than 2 milligrams of mercury.

CFL RECYCLEPAK

At the end of their life, CFLs should be recycled, rather than disposed of with other trash. Your community may accept CFLs as part of municipal hazardous waste collections. If not, use this CFL recycling kit from Veolia ES, an environmental services company that will process the fluorescent lamps properly.

It's easy to use — simply assemble the box and insert the plastic liner. Fill the box with burnt-out compact fluorescent light bulbs to be recycled. When the box is full, complete the prepaid Federal Express return shipping label and ship the bulbs to Veolia ES for recycling. One RECYCLEPAK box is 6 inches square (6" x 6" x 6") and will hold up to 8 CFLs.

Price includes the box, plastic liner, liner tie, instructions, and return shipping and processing costs.

7200.728 Veolia RECYCLEPAK

Lighting Selection

EFI carries a variety of energy efficient fixtures. We make every attempt to select vendors and products based on the value they bring and the quality of their products and services.

Some of the manufacturers that we work with include:

- Brownlee Lighting
- LPC — Light Process Company
- Sea Gull Lighting
- Progress Lighting
- Maxlite
- Satco

We have access to these manufacturers's entire line of energy efficient fixtures. If you are doing a project, we can help. We will work with you to choose the appropriate fixtures.

Go to www.efi.org to see images of some of the fixtures that we have in stock. Contact the Wholesale Division in Massachusetts or Wisconsin to get pricing for your project or to find out about other products available from our suppliers.

The images below are examples of some of the Hard Wire Compact Fluorescent Fixtures that we carry.

Progress Lighting

Maxlite

Brownlee Lighting

Sea Gull Lighting

LPC

GOOD EARTH DIMMABLE TORCHIERES

TIP: A great indirect lighting source, compact fluorescent torchieres use 60% to 80% less energy, produce good quality light, and do not get as hot as the halogen torchieres. Halogen torchieres can be a fire risk because of the high temperature of the halogen bulb

Indirect light source — all light projects upward — equivalent to a 250w halogen. Dimmable down to about 25–30%. Available in Black or White. Arrives knocked down — easy to assemble.

- Dimensions: 12.5" wide bowl, 72" high
- Light Output: 4,000 lumens
- Color Temperature: 3,000° Kelvin
- Color Rendering: 82 CRI
- Electrical Specifications: 120 volts AC, 60 Hz
- Weight: 16 lbs

1460.4	55w Gloss White Torchiere
1460.39	55w Matte Black Torchiere
1000.46	55w Replacement Bulb

LED Lighting Information

Information

LEDs (Light Emitting Diodes) have been in use for many decades. Until recently, most of us have seen them only as red or green power-on indicator lights for home electronic equipment. Manufacturers are finding more and more uses for LEDs in the commercial and residential markets and are spending time and resources developing ways to achieve various colors and wavelengths while making them brighter, dependable and economical.

When they are appropriate to use, LEDs offer the following advantages over incandescent and compact fluorescent lighting:

- Very low energy use — 95% less than incandescent
- Extremely long lifetimes — 30–50,000 hours can be expected
- Directed, focused light
- Low "total cost of ownership" because of long lifetime
- Durable with regard to impact and vibration
- No mercury or other heavy metals
- No ultra-violet rays — will not fade fabrics or paintings
- Very little heat to impact air conditioning

LEDs work well in under cabinet lighting because of the close proximity of the fixture to the work surface. Using them in ceiling cans that are shining on work counters may not be the best use. Please call us for the latest information about this quickly evolving product category.

LED: Light Emitting Diode

Some great uses for LED lights

- Under cabinet lighting
- Cove lighting or up lighting
- Wall washing
- Recessed cans for general lighting — not task lighting
- Hallway lights and closet lights
- Decorative lighting
- Patio and porch accent lighting
- Nightlights

COLOR KINETICS LED UNDER CABINET LIGHT STRIP

- Compact linear fixture
- Under cabinet or shelf
- 3 lengths available: 11", 21" and 41"
- Jumpers available in 6". 12", 18" and 5' lengths
- Use up to 50 strips per run
- Uses approx 5.5 watts per foot, line voltage
- Low profile — .875" high x 1.5" wide x 11" long
- 2700° Kelvin
- Dimmable with electronic 120v dimmer

Choose one of the following:

7510.109 Hard wire junction box w/end cap
7510.206 Switched lead-in cable w/3-prong plug – 10'

Then select needed jumper cables:

7510.105 Jumper Cable — 6"
7510.106 Jumper Cable — 12"
7510.107 Jumper Cable — 18"
7510.108 Jumper Cable — 5'

Then select needed light strips

7510.101 LED Under Cabinet Strip — 11" w/Coupler
7510.102 LED Under Cabinet Strip — 21"
7510.103 LED Under Cabinet Strip — 41"

COLOR KINETICS LED COVE LIGHT STRIP

- Direct or track mounting
- Interior cove, accent and display lighting
- 2 Lengths Available: 6" and 12"
- Start with 10' leader cable
- Strips clip together directly
- Use jumpers for longer distances
- Jumpers available in 1' and 5' lengths
- Use up to 100' per run
- Uses approx 4.5 watts per foot, line voltage
- 2700° Kelvin
- Dimmable with electronic low voltage dimmer

7510.203 Leader Cable — 10'

7510.201 LED Cove Strip — 6"
7510.202 LED Cove Strip — 12"

7510.204 Jumper Cable — 1'
7510.205 Jumper Cable — 5'

PROGRESS LIGHTING LED RECESSED CANS

New Title 24 Compliant Cans and Trim with Quick-Link Connections

4" and 6" Recessed Cans
- Airtight and IC rated
- New Construction or re-hab
- 4" and 6" cans available

1440.321 4" Recessed Housing w/Hangar Bars & Quick Connects
1440.322 6" Recessed Housing w/Hangar Bars & Quick Connects

4" and 6" White LED Quick Link Trim and Light Units
- Uses 9 Diodes
- 12w Input Power
- Quick Link Coupler — no screw base
- Title 22 Compliant — no mercury
- Cast Aluminum Heat Sink
- Dimmable
- 30° beam spread

Average Rated Life: 50,000 hours
Color Temperature: 2,700° Kelvin
CRI: 75+

			Lumens
1440.325	4" LED Light and Trim	11w	434
1440.327	6" LED Light and Trim	12w	502

Quick-Link power connectors in place of screw base connections meet Title 24 requirements.

CREE LR5 AND LR6 SCREW-IN DOWN LIGHTS

LR5

LR6

Top View

- 50,000 rated life
- Dimmable to 20%
- 2700° Kelvin
- CRI = 92
- UL listed for damp location

LR5 Model — Standard screw-in Edison Base — 2 piece
- Designed to be a replacement for screw-in bulbs and reflectors in most standard 5" cans
- Purchase the light unit and trim separately
- 11w product emitting approx 540 lumens of directed light.
- Choose white or anodized (silver) reflector to finish each unit

1440.907 Cree LR5 Screw-in LED Downlight — 2700° Kelvin

1440.505 Anodized (Silver) Reflector with White Face Trim
1440.507 White Reflector with White Face Trim

LR6 Model — Standard screw-in Edison Base — 1 piece
- Designed to be a replacement for screw-in bulbs and reflectors in most standard 6" cans
- 12w producing approx 600 lumens of directed light

- All-in-on unit — trim attached — white only

1440.901 Cree LR6 LED Downlight — 2700K
1440.902 Cree LR6 LED Downlight — 3500K

LED Lighting Products

ENERGY FEDERATION INCORPORATED

LED REFLECTORS

Maxlight R-20 LED Reflector
Average Rated Lifetime: 50,000 hours
Color Temperature: 2,700° Kelvin
CRI: 82
Minimum Starting Temperature: 5°F
Case Quantity: 12

			Lumens	*Dim*
1100.024	2.2w	R-20	44	2.5" x 4.0"

GE R-20 LED REFLECTOR

Average Rated Lifetime: 20,000 hours
Color Temperature: 3,000° Kelvin
CRI: 82
Minimum Starting Temperature: 5°F
Case Quantity: 6

			Lumens	*Dim*
7510.002	7w	R-20	200	3.93" x 2.5"

LED MR-16 PLUG-IN LAMPS

- Use in tracks, rails and pendant fixtures
- Compatible with magnetic low voltage transformers
- 10 or 25° beam spread
- Standard GU 5.3 pin base
- High intensity LED package with clear tempered glass
- 12 volts, 4.8 watts
- 36 lumens — 10°, 40 lumens — 25°
- Average Rated Life: 50,000 hours
- Color Temperature: 2,700° Kelvin
- Operating Range: –4°F to 122°F

1200.024 Philips MR16 LED 10°
1200.025 Philips MR16 LED 25°

LED EXIT SIGN SCREW IN LAMPS

- Retrofit most existing signs
- Red LEDs
- 10 year life expectancy
- UL 924 specifications
- Set of 2 lamps includes candelabra, intermediate and bayonet base adapters

1180.09 Set of 2 Lamps 1.25" x 4.7"

GE R-30 LED REFLECTOR

Average Rated Lifetime: 20,000 hours
Color Temperature: 3,000° Kelvin
CRI: 82
Minimum Starting Temperature: 5°F
Case Quantity: 6

			Lumens	*Dim*
1160.614	10w	R-30	340	3.63" x 3.75"

PHILIPS AMBIENT A-19 LED REFLECTOR

Average Rated Lifetime: 40,000
Color Temperature: 3,100° Kelvin
CRI: 82
Minimum Starting Temperature: 5°F
Case Quantity: 6

			Lumens	*Dim*
1100.443	7w	A-19	155	4.38" x 2.25"

LED EXIT SIGN

- 25 Year lifetime
- Draws less than 2w
- Double Sided, Universal mounting
- UL listed for use in damp locations
- 6 volt maintenance free nickel cadmium battery
- 1.5 hours of operation in the case of a power outage

1180.1 LED Exit Sign 12" x 7.5" x 2.25"

LED NIGHT LIGHT

- Blue LEDs behind a plastic diffuser
- Soft light for a room or hall
- Photocell operated — no on/off switch

1600.047 Diamond Blue Nightlight

Quick Flash Rain Control Panels

ENERGY FEDERATION INCORPORATED

QUICKFLASH™ WEATHERPROOFING PANELS

Plumbing/HVAC Flashing Panels

Electrical Flashing Panels

- Effectively seal plumbing, electrical, and HVAC penetrations from rain
- Suitable for residential and commercial applications
- Designed to work under wood and vinyl siding, stucco, brick and stone veneers
- Easy and quick installation
- Eliminate the use of unreliable caulk
- Panels are made of high-grade polyethylene plastic and thermo plastic rubber
- Non-conductive and impervious to rust and corrosion

Plumbing and HVAC Penetration Panels — Case qty = 12 pieces

3570.611	Plumb Panel	0.5" – 0.75"	P-50
3570.612	Plumb Panel	1.0" – 1.25"	P-100
3570.613	Plumb Panel	1.5" – 1.75"	P-150
3570.614	Plumb Panel	2.0" – 2.50"	P-200
3570.615	HVAC Panel	3" ABS	P-300
3570.616	HVAC Panel	4" ABS	P-400
3570.617	HVAC Panel	6" Sheet Met	P-600
3570.618	Plumb Panel	2-piece 0.5" – 2"	P-2PS
3570.62	AC Line Set Panel — 250C		

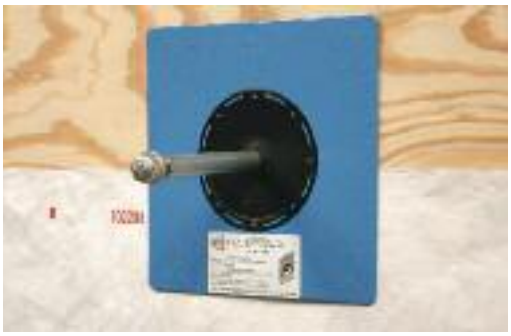
Electrical Box and Outlet Panels — Case qty = 12 pieces

		Lap Siding	1 Coat Stucco	3 Coat Stucco	EIFS
3570.601	E-SGB	♦		♦	
3570.602	E-SGB-A .875"			♦	
3570.603	E-SGB-A 1 .375"		♦		♦
3570.604	E-SGR	♦		♦	
3570.605	E-3/0 B	♦		♦	
3570.606	E-3/0 B-A .875"			♦	
3570.607	E-3/0 B-A 1 .375"		♦		♦
3570.608	E-4/0 B	♦		♦	
3570.609	E-PC-3/0	♦		♦	
3570.610	E-PC-4/0	♦		♦	

TYPICAL INSTALLATIONS

1

2



3

4

Very Important: Quickflash electrical flashing panels are designed to be installed over the specified electrical boxes only and to be used for vertical structure application only. Please call for a copy of the Electrical Box Cross Reference guide or get a copy on www.efi.org/wholesale.

National distributor shipping direct throughout the United States
TO PLACE ORDERS OR FOR MORE INFORMATION:
800/876/0660 • FAX 888/440/4219
WISCONSIN 800/962/7015 • WISCONSIN FAX 920/757/6452
HEADQUARTERS *40 Washington Street, Westborough, Massachusetts 01581 • www.efi.org/wholesale*

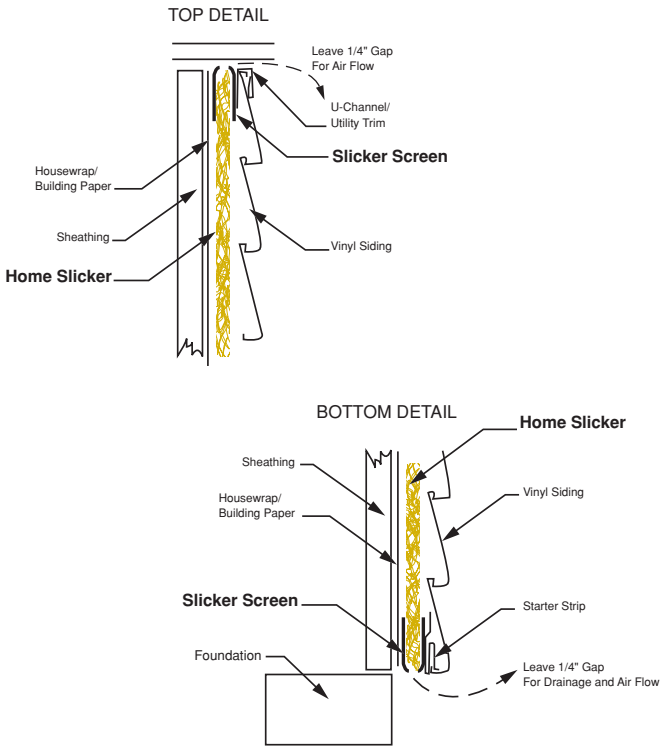
HOME SLICKER™ RAIN SCREEN

Home Slicker Rain Screen

- Benjamin Obdyke Product
- Rolls are 39" x 46'; 150 sq ft of coverage
- 0.25" thick three-dimensional Nylon matrix provides a space for continuous drying
- 2 drainage channels per inch
- Use under wood, stucco, EIFS systems, brick and stone veneers or vinyl
- Quick, easy installation. 50 year limited warranty

3580.01 Home Slicker Rain Screen — 39" x 46'

SLICKER SCREEN



- Use Slicker Screen with Home Slicker for insect control at tops and bottoms of walls

3580.02 Slicker Screen 6" Wide x 100'

VICOR PLUS WINDOW FLASHING

- Use Vicor Plus flashing to tape window flanges to building paper

3580.11 6" Vicor Plus — 6" x 75'
3580.12 9" Vicor Plus — 9" x 75'

Water Conservation Products

ENERGY FEDERATION INCORPORATED

MASSAGING ADJUSTABLE SHOWERHEADS

- 2.0 gpm or less at 80 psi
- High-impact plastic body; white or chrome finish
- Adjustable non-aerating spray and pulsating spray

3000.20 2.0 gpm Showerhead White

3000.161 1.75 gpm Showerhead Chrome

HAND-HELD SHOWERHEADS

- 2.0 gpm at 80 psi
- High-impact plastic body
- Adjustable non-aerating spray and pulsating spray
- Chrome or white finish
- 6' flexible hose

3000.204 Hand-Held Showerhead White

3000.205 Hand-Held Showerhead Chrome

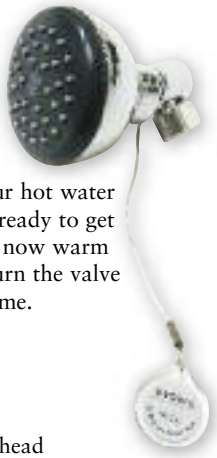
PIPE INSULATION

- Flexible elastomeric foam pre-slit for easy installation
- Suitable for use on domestic hot water pipes only
- Tolerates temperatures from 90°F to 180°F

4000.03 5/8" x 3' Pipe Insulation (4-Pack = 12')
1/2" ID x 3/8" wall x 3' length; R-Value = 2.2

4000.031 7/8" x 3' Pipe Insulation (4-Pack = 12')
3/4 " ID x 3/8" wall x 3' length; R-Value = 2.2

EVOLVE™ SHOWERSTART™ SHOWERHEAD



When the shower is initially turned on the ShowerStart™ device monitors the water temperature. When the water temperature reaches bathing temperature, (95°F / 35°C), the conservation mode is activated and the device "triggers a trickle". This prevents your hot water from running down the drain before you're ready to get in the shower. The water for your shower is now warm and waiting instead of warm and wasted. Turn the valve on the showerhead, the water flow will resume.

- 1.59 gpm max @ 80 psi
- Pressure compensating flow regulator
- Non-aerating spray

3000.53 Evolve™ ShowerStart™ Showerhead

FAUCET AERATORS

- Chrome-plated solid brass body

3010.02 Standard Aerator
1.5 gpm at 80 psi

3010.04 Standard Aerator,
2.2 gpm at 80 psi

3010.1 Kitchen Aerator with Flip,
2.2 gpm at 80 psi

3010.41 Aerator with Flow-Control Button,
1.5 gpm at 80 psi

Swivel Aerator
- Chrome-plated plastic body
- Swivel control to direct flow all around the sink in a solid stream or a wide spray
- Features flow-control lever for temporary water interruption

3010.45 Swivel Aerator with Lever
2.5 gpm at 80 psi

TOILET TANK BANK

- Maintenance-free toilet displacement bag saves up to 0.8 gallons with every flush

3020.10 Toilet Tank Bank

National distributor shipping direct throughout the United States

TO PLACE ORDERS OR FOR MORE INFORMATION:

800/876/0660 FAX **888/440/4219**

WISCONSIN **800/962/7015** WISCONSIN FAX **920/757/6452**

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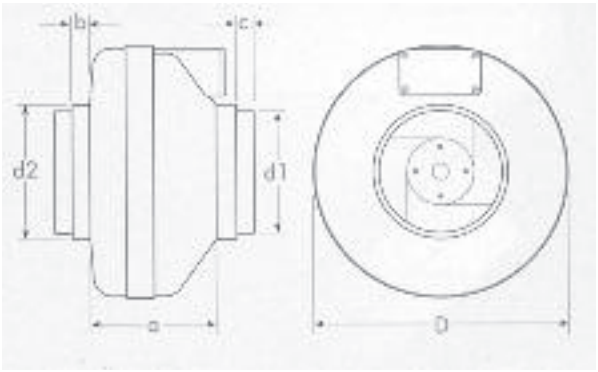
Ventilation Fans
Dimensional Information

ENERGY FEDERATION INCORPORATED

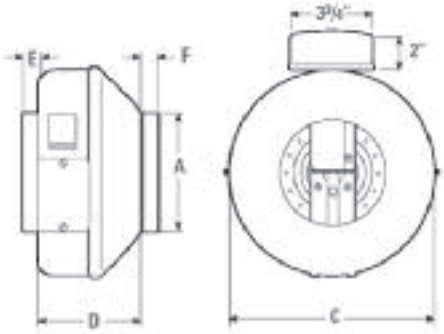
FANTECH FR SERIES IN-LINE

model	D	d1	d2	a	b	c
FR100	9½	3⅞	4⅞	5¼	⅞	⅞
FR110	9½	3⅞	4⅞	5¼	⅞	⅞
FR125	9½	—	4⅞	5¼	⅞	—
FR140	11⅝	5⅝	6⅞	5⅝	1	⅞
FR150	11¾	5⅞	8¼	5⅞	1	⅞
FR160	11¾	5⅞	6⅞	6⅜	1	⅞
FR200	13¼	7⅛	9⅛	6¼	1½	1½
FR225	13¾	7⅛	9⅛	6¼	1½	1½
FR250	13¼	—	9⅛	6¼	—	1½



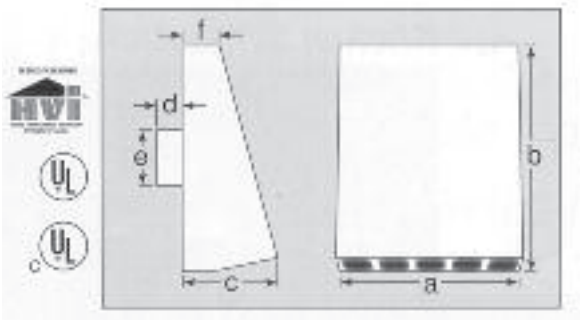
FANTECH FG SERIES IN-LINE

MODEL	*A1	C	D	E	F
FG 4/FX 4	4	8.75	6.5	1	1
FG 4XL/FX 4XL	4	9.75	6.937	1	1
FG 5/FX 5	5	8.75	5.5	1	0.875
FG 5XL/FX 5XL	5	9.75	5.937	1	1
FG 6/FX 6	6	11.375	6	1	1
FG 6XL/FX 6XL	6	13.125	6.625	1	1
FG 8/FX 8	8	13.375	6	1.125	1.125
FG 8XL/FX 8XL	8	13.375	6	1.125	1.125
FG 10/FX 10	10	13.375	4.687	1.125	1
FG 10XL/FX 10XL	10	13.375	5.875	1.125	1
FG 12/FX 12	12	16	8.25	1 1/16	1.187
FG 12XL/FX 12XL	12	16	8.25	1 1/16	1.187



FANTECH RVF SERIES WALL-MOUNTED

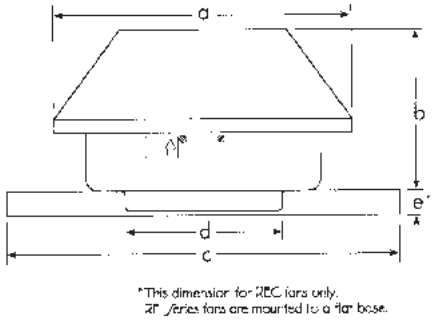
model	a	b	c	d	e	f
RVF4	10¼	13	6	1¼	4	2¾
RVF4XL	10¼	13	6	1¼	4	2¾
RVF6	10¼	13	6	1½	6	2¾
RVF6XL	14¼	17	6	1½	8	2¾
RVF8XL	14¼	17	6	1½	8	2¾



FANTECH RE/REC SERIES ROOF-MOUNTED

model	a	b	c	d	e
RE-6	13 13/16	6½	15½	6	1½
RE-8XL	15¾	6	20	8	1½
RE-10XL	19¾	11¾	20	10	1½

Note: RC fans are built with a flat base.

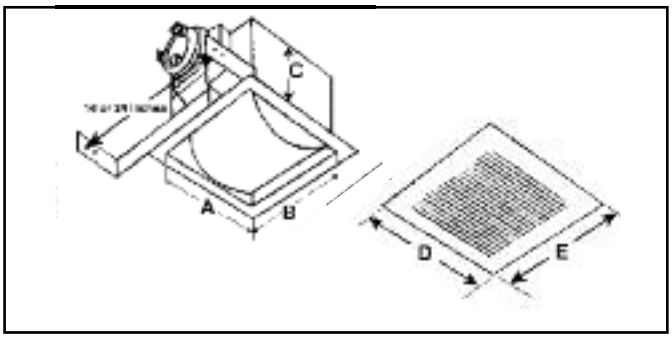


*This dimension for REC fans only.
RF Series fans are mounted to a flat base.

Ventilation Fans
Dimensional Information

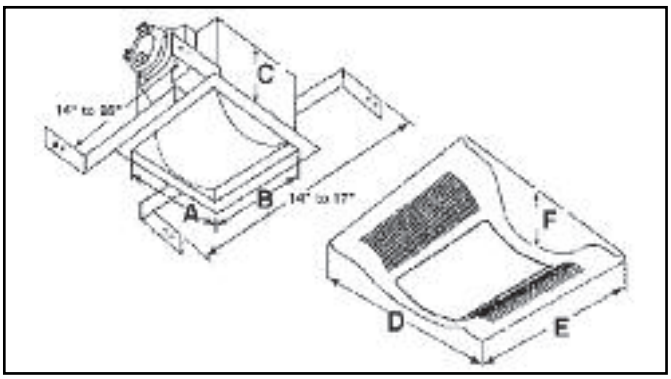
ENERGY FEDERATION INCORPORATED

PANASONIC AND BROAN FAN ONLY UNITS



MODEL	A	B	C	D	E
Panasonic Whisper Green — No Light					
All Models	10.25"	10.25"	7.875"	13"	13"
Panasonic Whisper Ceiling					
FV-05VQ3	10.25"	10.25"	7.875"	13"	13"
FV-08VQ3	10.25"	10.25"	7.875"	13"	13"
FV-11VQ3	10.25"	10.25"	7.875"	13"	13"
FV-11VQD2	9.125"	9.125"	7.875"	11.875"	11.875"
FV-15VQ4	10.25"	10.25"	7.875"	13"	13"
FV-20VQ3	12.25"	12.25"	9.25"	15"	15"
FV-30VQ3	12.25"	12.25"	9.25"	15"	15"
FV-40VQ3	14.75"	14.75"	9.25"	17.75"	17.75"
Panasonic Whisper Warm					
FV11VH2	16.0"	11.25"	7. 75"	18.20"	13.32"
Panasonic Whisper Fit — No Light					
All Models	10.25"	10.25"	5.625"	13"	13"
Panasonic Whisper Value					
FV-05VS1	10.25"	10.25"	3.75"	13"	13"
FV-08VS1	10.25"	10.25"	3.75"	13"	13"
Panasonic Radiation Damper					
PC-RD05C3	10.25"	10.25"	3.625"		
FV-04VE1	18.5"	13.5"	7.875"	20.75"	16.75"
Broan Fans — No Light					
All Models	10.5"	11.375"	7.75"	13"	14"

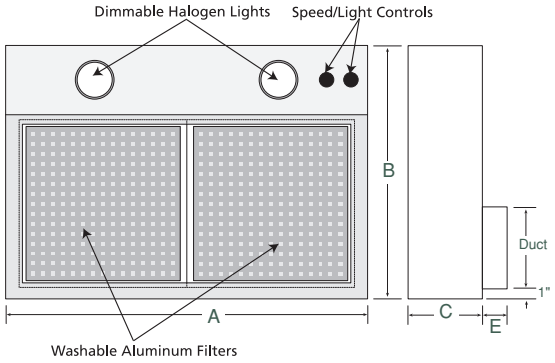
PANASONIC AND BROAN FAN-LIGHT UNITS



MODEL	A	B	C	D	E	F
Panasonic Whisper Green — with Light						
All Models	10.25"	10.25"	7.875"	13"	13"	2.75"
Panasonic Whisper Light						
All Models	10.25"	10.25"	7.875"	13"	13"	2.875"
Panasonic Whisper Warm Light						
FV-11VHL2	16.0"	11.25"	7.75"	18.20"	14.20"	3"
Panasonic Whisper Fit Light						
All Models	10.25"	10.25"	5.625"	13"	13"	2.875"
Panasonic Whisper Value Light						
FV-08VSL1	10.25"	10.25"	3.75"	13"	13"	2.875"
Broan Fans — with Light						
All Models	10.5"	11.375"	7.75"	13"	14"	

FANTECH RANGE HOOD LINERS*

Model	Duct**	A	B	C	E
SHL36	8	34.5	22	6	3
SHL42	10	40.5	22	6	3
SHL48	10	46.5	22	6	3
SGHL30	6	28.5	18	4	3
SGHL36	6	34.5	18	4	3



*Specifications are subject to change without notice

**Duct dimensions are 1/8" smaller than duct size

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WISCONSIN 800/962/7015 • WISCONSIN FAX 920/757/6452
HEADQUARTERS *40 Washington Street, Westborough, Massachusetts 01581 • www.efi.org/wholesale*

Policies and Procedures

ENERGY FEDERATION INCORPORATED

The staff of EFI's Wholesale Division looks forward to working with our customers to provide the highest quality, energy efficient products available at competitive prices. We ship orders throughout the United States Monday through Friday from two warehouse locations: Westborough, Massachusetts and Greenville, Wisconsin.

Ordering Information

Our hours of operation are from 8:00 am to 5:00 pm (Eastern Standard Time in MA and Central Standard Time in WI), Monday through Friday. Our customers are always welcome to visit us to get information or pick up orders.

EFI - Massachusetts

40 Washington Street
Westborough, MA 01581
Tel 800/876/0660 X1
Fax 888/440/4219

EFI - Wisconsin

N1070 Quality Drive
Greenville, WI 54942
Tel 800/962/7015
Fax 920/757/6452

You can find us on the Web at www.efi.org/wholesale.

Shipping

Every effort is made to ship all wholesale orders on the same day they are placed. Orders are generally shipped via UPS ground service. US Mail service is also available. Large orders may be shipped via common carrier. Overnight and second day air services are available for the convenience of our customers. The cost of overnight and second day service is the responsibility of the customer. When applied, shipping charges are passed through to our customers at the same rate we receive from our carriers — we do not charge for handling.

Pricing

EFI is committed to maintaining fair, competitive pricing and we welcome feedback from our customers. Prices are subject to change without notice.

Payment Terms

EFI accepts cash, checks, money orders, MasterCard, Visa, American Express or Discover. We will be happy to set up a net 30 account for qualifying customers who have filled out a credit application. If necessary, we can ship orders C.O.D. Shipping charges will be added to the invoice — F.O.B. our dock. In most cases, we will not charge freight for orders over $3,000 within the continental United States. The exceptions to this are DHW panels, foam canisters and oversized products such as weatherstripping. Haz-mat fees for products that require them are passed on regardless of order size. In an effort to help our customers, EFI continues to work with carriers to negotiate the best possible freight rates. These freight policies are subject to change without notice. *EFI reserves the right to charge freight or add fuel surcharges when necessary as a result of rising transportation costs.*

Returns

We want to make sure our customers are satisfied with our products. EFI will honor all manufacturers' warranties for the products we sell. If a product does not meet your expectations, please contact us to arrange for an exchange, credit or refund. Returns are accepted within 30 days for full credit on unused products in original packaging. Please call to get a Return Materials Authorization (RMA) number before returning product.

EFI cannot accept returns or issue credit on the following products: caulking, sealants, mastic, foams, and tapes.

Mission Statement

We believe it is essential to encourage environmentally benign and sustainable use of our planet's limited energy and water resources. Through the distribution of resource conserving products and the provision of objective, accurate information, we strive to assist people in their efforts to use energy and water efficiently, leading to improved quality of life and economic condition. Acknowledging the adverse impacts that the over-consumption of limited natural resources can have is not enough; people need access to appropriate technologies and information. Energy Federation Incorporated helps people gain this access. We do this by:

- Offering quality conservation products that provide real, measurable savings.
- Investing our time and money to communicate practical, objective information to our customers and clients.
- Undertaking ongoing efforts to identify new products and technologies that will help people conserve energy and water, and evaluating existing products and technologies to insure that product performance matches product claims.
- Keeping the prices of these products affordable.

EFI Wholesale Products Catalog

Ventilation Products

HRVs and ERVs
In-Line Fans
Ceiling Surface Fans
Whole House Fans
Controls and Timers
Duct Accessories

Air Sealing Products

Low Expansion Foam
High Expansion Foam
Duct Sealing Supplies
Tapes and Sealants
Air Tight Electrical Boxes
Weather Stripping

Specialty Building Products

Solar Panels
CO, Smoke and Fire Detectors
Programmable Thermostats
Rain Control Products
Monitors and Meters
Testing Equipment

Energy Efficient Lighting

Compact Fluorescent Bulbs
Energy Efficient Fixtures
LED Lights

Water Saving Products

Showerheads and Aerators
Drain Water Heat Recovery

Offices & Warehouses

Massachusetts

40 Washington Street
Westborough, MA 01581
Tel 800/876/0660 X1
Fax 888/440/4219

Wisconsin

N1070 Quality Drive
Greenville, WI 54942
Tel 800/962/7015
Fax 920/757/6452

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